

# CATALOGUE OF PRO DUCTS

***DAST***®  
FABRIK FÜR PRODUKTION VON KLEBSTOFFEN UND MÖRTEL







[www.dast.eu](http://www.dast.eu)



## Chemical Solutions for Construction Industry



Denmark

Germany

France

Switzerland

Austria

Italy

Croatia  
Bosnia  
and  
Herzegovina

Serbia

Kosovo

Macedonia

Albania

Greece

Bulgaria

Malta

Tunisia

Morocco

Algeria

Libya

Ghana



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# ABOUT US

DAST is not just a passionate manufacturer of qualitative construction and repair materials, but of everything related to living and working in comfortable and healthy surroundings. What we do is to provide a strong and stable foundation, and an elegant and stylish view for your familial, work and entertainment premises. We invite you to come and get convinced that we are more than what we create! Everything starts with the recognition of DAST and continues with a permanent friendly relationship, because we are committed, we understand what you are looking for and offer the most convenient solution for each one of you.

It is not uncommon for people to come to congratulate us and to express their friendship. Our partners have become the guide of social life in cities and villages, the meeting point of the most distinguished professionals and technicians of industry and the target of all market actors. This is because our distributors offer safe products; because they expect that after a while the client returns to thank them; because they know that they can trust a rigorous quality, an accurate service and a full commitment. Therefore, DAST is not just passionate manufacturer of qualitative construction and repair materials, but a community of proud and happy people, experienced and ambitious professionals and a node of new energies.

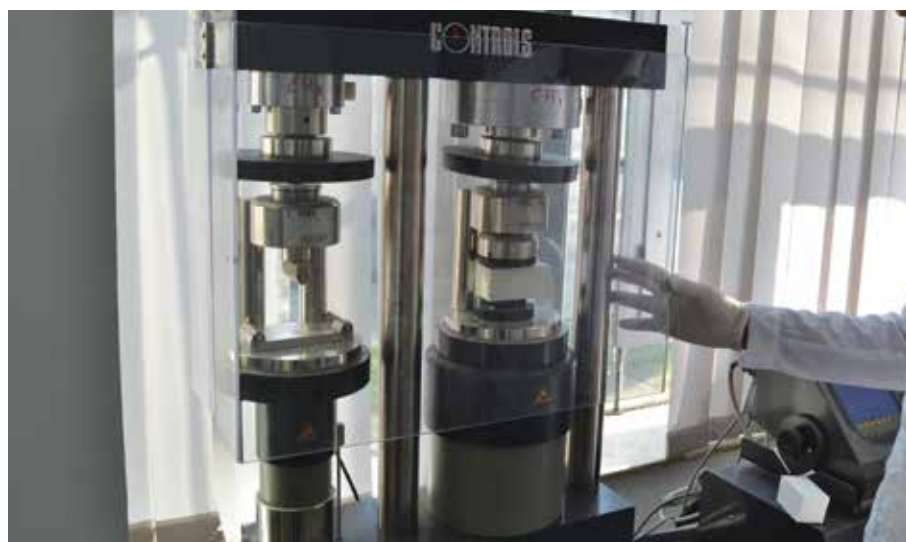
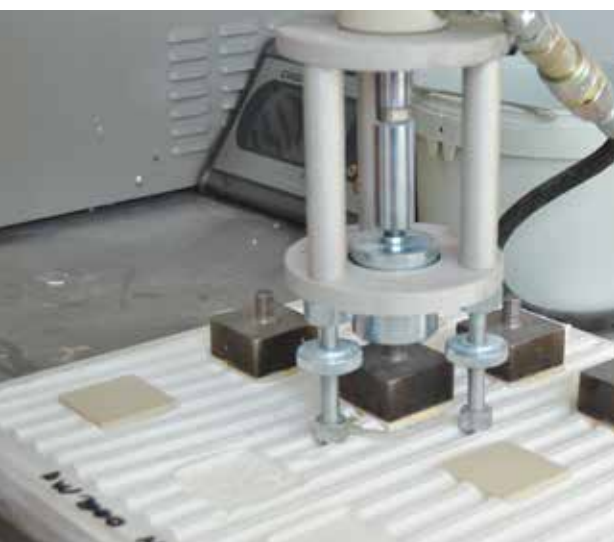
DAST sh.a. is an Albanian-German consortium, created by the combination of experience, technology, deep knowledge of the market, outstanding entrepreneurial skills and financial potential. Established in January 2008, DAST has grown rapidly by taking a leading position in Albania and a wide recognition in the Balkans. Products of DAST are traded in Germany, Switzerland, Italy, Greece, Albania, Macedonia, Montenegro, Kosovo, Lebanon, Algeria, Tunisia, Morocco, Bosnia and Herzegovina, Serbia, Belgium and beyond.

DAST product portfolio ranges from tile adhesive, joint fillers, decorative coatings, mortars, finishes, gypsum-based products, self-levelers and waterproofs, to silicones, reinforcing additives, acid cleaners, nets, bands and other accessories, applicable to the paving of tiles, decorative coating of walls, filling of brick and block walls, flattening and leveling, and hydro-insulation of horizontal and vertical surfaces, in indoor and outdoor environments for different weather conditions.

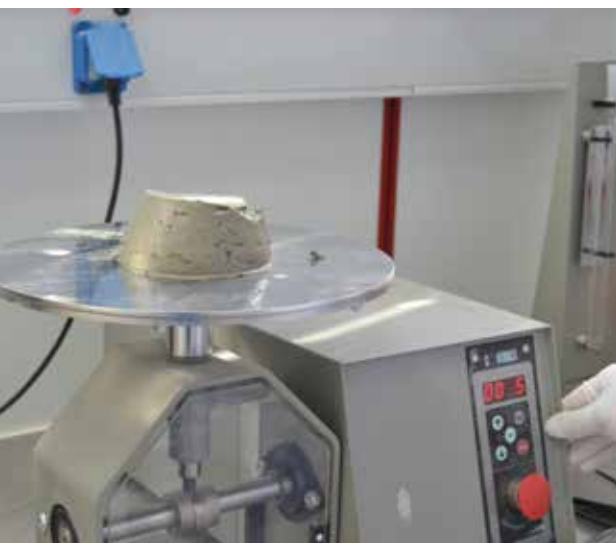
Our Research- and- Development department is in a vanguard function for the design and projection of new solutions. Our laboratories are equipped with the latest technology and procedures, in line with our mission to anticipate market demand with smart and sustainable solutions. A scientific team composed of experienced engineers works continuously to discover these solutions. Technology of manufacture is entirely modern and manageable through an integrated electronic system. Production, packaging and control are fully automated functions and are controlled through a system of electronic sensors. Our products are certified according to the technical standards of EN, while the management of quality is attained according to ISO 9001 standards. Customer service operates with speed and determination, seeing the need of the client from the perspective of the latter. This is the reason why DAST is not just a passionate manufacturer of qualitative construction and repair materials, but a community of proud and happy people, experienced and ambitious professionals and a node of new energies.



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# LABORATORY



DAST believes in the added value of European Engineering Technology and Standards. This is the reason why our products dominate every market they reach. M-tech technology, the technical standards EN as well as ISO 9001 quality standards help us provide the most precious solutions at competitive prices. We do not pay for mistakes, because the fully automated technology is designed in strict application of the technical standards EN and never errs. The m-tech production lines installed in our factory have a production capacity of 50 tons / hour. The advantage of m-tech manufacturing technology is that it does not require installation in height. Individually programmed controllers, associated with mechanical components, guarantee maximum accuracy of the system. M-tech technology is suitable for mass production, realizes the weighing of heavy components of products receipt and realizes automatic transportation towards mixing silos. It is equipped with a flexible system of additives dosage (FAD).

POWERDOS is a fully automatic dosing system. DAST uses it for high precision dosing of materials in bulk, as powders and granular materials, especially for powder materials of a poor leak quality.

The latest technology of visualized control, which can be controlled independently from the overall controller system, plus the precise dosing in extremely small quantities with a precision scale up to  $\pm 1$  gram, make nil the possibility of error and deformation of products. Precision is independent from the volume of materials, and DAST manages to minimize the amount of raw materials by completely avoiding losses and damages.

The vanguard technology in the manufacturing industry of construction, repair and maintenance materials for living, work and entertainment premises, is a strong point of DAST and an added value for our products; a greater benefit for our customers and a better quality of life for people.





DAST sh.a company has created Dast Academy, which is the first academy in Albania and in the region that conducts training courses / seminars in the field of construction. In support of the construction industry, this academy offers a wide range of certification and degree programs through professional cooperation with well-known partners from overseas of Albania. The goals for organizing these seminars with professionals of the construction field are:

- Presenting the participants with Dast sh.a company, its 8-year activity, research and development work in laboratories, manufacturing processes, advanced technology and committed staff.
- Informing the construction specialists about the products manufactured by this company and the advantages and benefits of their application.
- Presenting the new products created in the laboratory, with the aim of improving the living conditions.
- Demonstration of professional applications and presentation of the improved techniques.
- Advice from the best professionals of this field, and sharing experiences between participants in these seminars.

For all participants in these seminars, Dast Academy releases certificates that prove the perquisite of the obtained knowledge, and through them Dast sh.a offers full warranty for the usage and application of its products.

If you have questions about our products and activities, please do not hesitate to contact us in our address:  
info@dast.eu.





## **01. ADHESIVES**

## 1.1 ADHESIVE FOR TILES IN FLOORS, WALLS, FACADES AND POOLS

DW COM



Unit of measurement	Pieces/Pallet	Consumption	Color/Other specifications
25 kg/sack	54 pcs/pallet	3-5 kg/m <sup>2</sup>	Grey White



### DW COM

Cement-based adhesive, for the adhesion of ceramic tiles.

### PRODUCT CLASSIFICATION

DW COM is classified as C1 according to EN 12004, base C cement, Nr.1 adhesive with normal adhesive strength.

### CHARACTERISTICS

- For indoor and outdoor use.
- Good workability.
- For ceramic fixing in cement-based surfaces.
- For ceramic fixing in gypsum surface after being treated with PRIMER.

### AREA OF USE

DW COM is used for laying ceramic tiles, tiles of small dimensions on various surfaces such as: concrete, cement and plaster-based floors. It is suitable for indoor and outdoor use in residential environments.

### APPLICATION PROCEDURE

#### Preparation of the surface

Cement-based traditional supports should have a sufficient maturity time of (28 days in temperature 23°C and U.R 40%). Supports should be flat, stable and in function of intended use. The support where the product will be overlaid should be clean, free of external materials, such as: paints, oils, varnishes, anti-adhesion materials. The cleaning is made mechanically or manually. Before the application of the product, the plasters should have a maturity time of at least 1week for 1 cm of thickness. The supports should be mechanically stable, in function of intended use. The surface of the support where the product will be overlaid should be clean of any type of external material.

### APPLICATION

For a better application of the product, and for a good and uniform spreading of it in the entire surface, it is recommended that you first lay the product on the support through the straight blade of the trowel, and then through its notched part. The product should be applied

with a suitable trowel, depending on the type and parameters of the tile. It is recommended that after laying the tile, you put pressure on it so that the back part of the tile gets completely saturated with the adhesive. Special conditions, such as: high temperatures or strong winds, sun or substrates with a high absorption of water, affect negatively the performance of the product and can even decrease significantly the spreading and correction time. To avoid these problems, it is recommended to sprinkle the support with water before the application of the product, or to treat it with the liner DW PRIMER. However, in any case, it is important that before the laying of the tiles, you check if the adhesive has created a "skin". In such cases, you should re-spread the adhesive in order to re-activate its adhesive strength. You should avoid pouring water over the adhesive which has created a skin (is solidified) because in such as case, an anti-adhesive layer is created. In cases of coatings and floors in outdoor environments, especially in cases when the back part of the tile has relief, it is recommended that you spread the adhesive in the pack part of the tile and also on the support, so as to avoid the creation of cavities where water can penetrate, or moisture can be created, which can cause the tiles to detach or break.

### CONSUMPTION

Depending on the used trowel

Notch of trowel (mm)	Consumption (Kg/m <sup>2</sup> )
4 mm	2.0 Kg/m <sup>2</sup>
6 mm	2.7 Kg/m <sup>2</sup>
8 mm	3.3 Kg/m <sup>2</sup>
10 mm	4,0 Kg/m <sup>2</sup>



#### TECHNICAL DATA

Form	Powder
Color	White/Grey
Density	1650 gr/L
Pot life	4 hours
Temperature of application	+5°C up to +35°C
Open time EN 1346	≥ 20 minutes
Correction time	≥ 30 minutes
Adhesion strength	
- After water immersion	≥ 0.5 N/mm <sup>2</sup>
- After freeze-thaw cycles	≥ 0.5 N/mm <sup>2</sup>
- After heating	≥ 0.5 N/mm <sup>2</sup>
- After normal condition	≥ 0.5 N/mm <sup>2</sup>



#### PACKAGING

DW COM is supplied in 25 kg paper bags.

#### SHELF-LIFE - STORAGE

12 months, if preserved in normal premises and in its original packaging, protected by the direct exposure to sun and frost.

## 1.1 ADHESIVE FOR TILES IN FLOORS, WALLS, FACADES AND POOLS

### DW 1000



Unit of measurement	Pieces/Pallet	Consumption	Color/Other specifications
25 kg/sack	54 pcs/pallet	3-5 kg/m <sup>2</sup>	Grey White



#### DW 1000

Cement-based adhesive, for the adhesion of ceramic tiles.

#### PRODUCT CLASSIFICATION

DW 1000 is classified as C1E according to EN 12004, base C cement, Nr.1 adhesive with normal adhesive strength, E – prolonged time of workability.

#### CHARACTERISTICS

- For indoor and outdoor use.
- Good workability.
- For ceramic fixing in cement-based surfaces.
- For ceramic fixing in gypsum surface after being treated with PRIMER.

#### AREA OF USE

DW 1000 is used for laying ceramic tiles, tiles of small dimensions on various surfaces such as: concrete, cement and plaster-based floors. It is suitable for indoor and outdoor use in residential environments.

#### APPLICATION PROCEDURE

##### Preparation of the surface

Cement-based traditional supports should have a sufficient maturity time of (28 days in temperature 23°C and U.R 40%). Supports should be flat, stable and in function of intended use. The support where the product will be overlaid should be clean, free of external materials, such as: paints, oils, varnishes, anti-adhesion materials. The cleaning is made mechanically or manually. Before the application of the product, the plasters should have a maturity time of at least 1week for 1 cm of thickness. The supports should be mechanically stable, in function of intended use. The surface of the support where the product will be overlaid should be clean of any type of external material.

#### APPLICATION

For a better application of the product, and for a good and uniform spreading of it in the entire surface, it is recommended that you first lay the product on the support through the straight blade of the trow-

el, and then through its notched part. The product should be applied with a suitable trowel, depending on the type and parameters of the tile. It is recommended that after laying the tile, you put pressure on it so that the back part of the tile gets completely saturated with the adhesive. Special conditions, such as: high temperatures or strong winds, sun or substrates with a high absorption of water, affect negatively the performance of the product and can even decrease significantly the spreading and correction time. To avoid these problems, it is recommended to sprinkle the support with water before the application of the product, or to treat it with the liner DW PRIMER. However, in any case, it is important that before the laying of the tiles, you check if the adhesive has created a "skin". In such cases, you should re-spread the adhesive in order to re-activate its adhesive strength. You should avoid pouring water over the adhesive which has created a skin (is solidified) because in such as case, an anti-adhesive layer is created. In cases of coatings and floors in outdoor environments, especially in cases when the back part of the tile has relief, it is recommended that you spread the adhesive in the pack part of the tile and also on the support, so as to avoid the creation of cavities where water can penetrate, or moisture can be created, which can cause the tiles to detach or break.

#### CONSUMPTION

Depending on the used trowel

Notch of trowel (mm)	Consumption (Kg/m <sup>2</sup> )
4 mm	2.0 Kg/m <sup>2</sup>
6 mm	2.7 Kg/m <sup>2</sup>
8 mm	3.3 Kg/m <sup>2</sup>
10 mm	4,0 Kg/m <sup>2</sup>



#### TECHNICAL DATA

Form	Powder
Color	White/Grey
Density	1650 gr/L
Pot life	4 hours
Temperature of application	+5°C up to +35°C
Open time EN 1346	≥ 20 minutes
Correction time	≥ 30 minutes
Adhesion strength	
- After water immersion	≥ 0.5 N/mm <sup>2</sup>
- After freeze-thaw cycles	≥ 0.5 N/mm <sup>2</sup>
- After heating	≥ 0.5 N/mm <sup>2</sup>
- After normal condition	≥ 0.5 N/mm <sup>2</sup>



#### PACKAGING

DW 1000 is supplied in 25 kg paper bags.

#### SHELF-LIFE - STORAGE

12 months, if preserved in normal premises and in its original packaging, protected by the direct exposure to sun and frost.

## 1.1 ADHESIVE FOR TILES IN FLOORS, WALLS, FACADES AND POOLS

**DW 1100**



Unit of measurement	Pieces/Pallet	Consumption	Color/Other specifications
25 kg/sack	54 pcs/pallet	3-5 kg/m <sup>2</sup>	Grey White



### DW 1100

Cement-based adhesive, for the adhesion of ceramic tiles

### CLASSIFICATION OF PRODUCT

DW 1100 is classified as C1TE according to EN 12004, base C cement, Nr. 1 adhesive with a normal strength of adhesion, T anti-slip, E – prolonged time of workability

### CHARACTERISTICS

- For indoor and outdoor use in residential environments.
- Good workability
- For ceramic fixing in cement-based surfaces.
- For ceramic fixing in gypsum surface after being treated with DW PRIMER.

### AREA OF USE

DW 1100 is used for laying ceramic tiles, tiles of small dimensions on various surfaces such as: concrete, cement and plaster-based floors. This product is suitable for indoor environments.

### APPLICATION PROCEDURE

#### Preparation of the surface

Cement-based traditional supports should have a sufficient maturity time of (28 days in temperature 23°C and U.R 40%). Supports should be flat, stable and in function of intended use. The support where the product will be overlaid should be clean and free of external materials, such as: paints, oils, varnishes, anti-adhesion materials. The cleaning is made mechanically or manually. Before the application of the product, the plasters should have a maturity time of at least 1week for 1 cm of thickness. The supports should be mechanically stable, in function of intended use. The surface of the support where the product will be applied should be clean of any type of external materials.

### APPLICATION

For a better application of the product, and for a good and uniform spreading of it in the entire surface, it is recommended that you first lay the product on the support through the straight blade of the trowel, and then through its notched part. The product should be applied with a suitable trowel, depending on the type and dimensions of the tile. It is recommended that after laying the tile, you put pressure on it so that the back part of the tile gets completely saturated. Special conditions, such as: high temperatures or strong winds, sun or substrates with a high absorption of water, affect negatively the performance of the product and can even decrease significantly the spreading and correction time. To avoid these problems, it is recommended to sprinkle the support with water before the application of the product, or to treat it with the liner DW PRIMER. However, in any case, it is important that before the laying of the tiles, you check if the adhesive has created a "skin". In such cases, you should re-spread the adhesive in order to re-activate its adhesive strength. You should avoid pouring water over the adhesive which has created a skin (is solidified) because in such as case, an anti-adhesive layer is created. In cases of coatings and flooring in outdoor environments, especially in cases when the back part of the tile has relief, it is recommended that you spread the adhesive in the pack part of the tile and also on the support, so as to avoid the creation of cavities where water can penetrate, or moisture can be created, which can cause the tiles to detach or break.



#### CONSUMPTION

Depending on the used trowel

Notch of trowel (mm)	Consumption (Kg/m <sup>2</sup> )
4 mm	2.0 Kg/m <sup>2</sup>
6 mm	2.7 Kg/m <sup>2</sup>
8 mm	3.3 Kg/m <sup>2</sup>
10 mm	4,0 Kg/m <sup>2</sup>



#### TECHNICAL DATA

Form	Powder
Color	White/Grey
Density	1650 gr/L
Pot life	4 hours
Temperature of application	+5°C up to +35°C
Open time EN 1346	≥ 20 minutes
Correction time	≥ 30 minutes
Slip	≤ 0.5 mm
Adhesion strength	
- After water immersion	≥ 0.5 N/mm <sup>2</sup>
- After freeze-thaw cycles	≥ 0.5 N/mm <sup>2</sup>
- After heating	≥ 0.5 N/mm <sup>2</sup>
- After normal condition	≥ 0.5 N/mm <sup>2</sup>



#### PACKAGING

DW 1100 is supplied in paper bags of 25 kg

#### SHELF-LIFE - STORAGE

12 months, if preserved in normal environment and in its original packaging, protected by direct exposure to sun and frost.

## 1.1 ADHESIVE FOR TILES IN FLOORS, WALLS, FACADES AND POOLS

**DW 2000**



Unit of measurement	Pieces/Pallet	Consumption	Color/Other specifications
25 kg/sack	54 pcs/pallet	3-5 kg/m <sup>2</sup>	Grey White



### DW 2000

Cement-based adhesive, for the adhesion of ceramic, gres, porcelain, etc., tiles.

### CLASSIFICATION OF PRODUCT

DW 2000 is classified as C2T according to EN 12004, base C - cement, Nr. 2 - adhesive with high adhesive strength, T - resistance to slip.

### CHARACTERISTICS

- For indoor and outdoor use.
- For moist environments
- Good workability
- For ceramic, gres, porcelain tiles fixing.
- For ceramic, gres and porcelain tiles fixing in gypsum surface after being treated with DW PRIMER.

### AREA OF USE

DW 2000 is used for laying ceramic, gres and porcelain tiles, and tiles of different dimensions on various surfaces such as: concrete, isolating coatings, cement, plaster, old tiles, etc. This product is suitable for indoor and outdoor environments. DW 2000 can also be applied in deformable surfaces, such as: gypsum or wood tiles, under-floor heating, when it is reinforced with FLEXIT additive; this additive improves technical adhesive parameters.

### APPLICATION PROCEDURE

#### Preparation of the surface

Cement-based traditional supports should have a sufficient maturity time of (28 days in temperature 23°C and U.R 40%). Supports should be flat, stable and in function of intended use. The support where the product will be applied should be clean and free of external materials, such as: paints, oils, varnishes, anti-adhesion materials. The cleaning is made mechanically or manually. Before the application of the product, the plasters should have a maturity time of at least 1 week for 1 cm of thickness. The supports should be mechanically stable, in function of intended use. The surface of the support where the product will be applied should be free of any type of external materials.

### APPLICATION

For a better application of the product, and for a good and uniform spreading of it in the entire surface, it is recommended that you firstly lay the product on the support through the straight blade of the trowel, and then through its notched part. The product should be applied with a suitable trowel, depending on the type and dimensions of the tile. It is recommended that after laying the tile, you put pressure on it so that the back part of the tile gets completely saturated. Special conditions, such as: high temperatures or strong winds, sun or substrates with a high absorption of water, affect negatively the performance of the product and can even decrease significantly the spreading and correction time. To avoid these problems, it is recommended to sprinkle the support with water before the application of the adhesive, or to treat it with the liner DW PRIMER. However, in any case, before laying the tiles, it is important that you check if the adhesive has created a "skin". In such cases, you should re-spread the adhesive in order to re-activate its adhesive strength. You should avoid pouring water on the adhesive which has created a "skin" (is solidified) because in such as case, an anti-adhesive layer is created. In cases of coatings and floorings in outdoor environments, especially in cases when the back part of the tile has relief, it is recommended that you spread the adhesive in the pack part of the tile and also on the support, so as to avoid the creation of cavities where water can penetrate, or moisture can be created, which can cause the tiles to detach or break.

### CONSUMPTION

Depending on the used trowel	
Notch of trowel (mm)	Consumption (Kg/m <sup>2</sup> )
4 mm	2.0 Kg/m <sup>2</sup>
6 mm	2.7 Kg/m <sup>2</sup>
8 mm	3.3 Kg/m <sup>2</sup>
10 mm	4,0 Kg/m <sup>2</sup>



#### TECHNICAL DATA

Form	Powder
Color	White/Grey
Density	1550 gr/L
Pot life	4 hours
Temperature of application	+5°C up to +35°C
Open time EN 1346	≥ 30 minutes
Correction time	≥ 45 minutes
Adhesion strength	
- After water immersion	≥ 1.0N/mm <sup>2</sup>
- After freeze-thaw cycles	≥ 1,0 N/mm <sup>2</sup>
- After heating	≥ 1,0 N/mm <sup>2</sup>
- After normal condition	≥ 1,0 N/mm <sup>2</sup>



#### PACKAGING

DW 2000 is supplied in paper bags of 25 kg

#### SHELF-LIFE - STORAGE

12 months, if preserved in normal environment and in its original packaging, protected by direct exposure to sun and frost.

## 1.1 ADHESIVE FOR TILES IN FLOORS, WALLS, FACADES AND POOLS

### DW 2200 RAPID



Unit of measurement	Pieces/Pallet	Consumption	Color/Other specifications
25 kg/sack	54 pcs/pallet	3-5 kg/m <sup>2</sup>	Grey



#### DW 2200 RAPID

Cement-based, fast drying adhesive, for the adhesion of ceramic, gres, porcelain, etc. tiles.

#### CLASSIFICATION OF PRODUCT

DW 2200 RAPID is classified as C2F according to EN 12004, base C cement, 2 adhesive with high adhesive strength, F fast final drying.

#### CHARACTERISTICS

- For indoor and outdoor use.
- For moist and dry areas
- Improvement of working parameters
- For fixing ceramic, gres, porcelain tiles.
- For fixing ceramic, gres and porcelain tiles in gypsum surface, after it is treated with DW PRIMER.

#### AREA OF USE

DW 2200 RAPID is used for laying ceramic, gres and porcelain tiles, and tiles of different dimensions on various surfaces such as: concrete, isolating coatings, cement, plaster, old tiles, etc. This product is suitable for indoor and outdoor use. DW 2200 RAPID can also be applied in deformable surfaces, such as: gypsum or wood tiles, under-floor heating, where it is reinforced with DW 17 additive; this additive improves technical adhesive parameters.

#### APPLICATION PROCEDURE

##### Preparation of the surface

Cement-based traditional supports should have a sufficient maturity time of (28 days in temperature 23°C and U.R 40%). Supports should be flat, stable and in function of intended use. The support where the product will be applied should be clean and free of external materials, such as: paints, oils, varnishes, anti-adhesion materials. The cleaning is made mechanically or manually. Before the application of the product, the plasters should have a maturity time of at least 1 week for 1 cm of thickness. The supports should be mechanically stable, in function of intended use. The surface of the support where the product will be applied should be free of any type of external materials.

#### APPLICATION

For a better application of the product, and for a good and uniform spreading of it in the entire surface, it is recommended that you firstly lay the product on the support through the straight blade of the trowel, and then through its notched part. The product should be applied with a suitable trowel, depending on the type and dimensions of the tile. It is recommended that after laying the tile, you put pressure on it so that the back part of the tile gets completely saturated. Special conditions, such as: high temperatures or strong winds, sun or substrates with a high absorption of water, affect negatively the performance of the product and can even decrease significantly the spreading and correction time. To avoid these problems, it is recommended to sprinkle the support with water before the application of the adhesive, or to treat it with the liner DW PRIMER. However, in any case, before laying the tiles, it is important that you check if the adhesive has created a "skin". In such cases, you should re-spread the adhesive in order to re-activate its adhesive strength. You should avoid pouring water on the adhesive which has created a "skin" (is solidified) because in such a case, an anti-adhesive layer is created. In cases of coatings and floorings in outdoor environments, especially in cases when the back part of the tile has relief, it is recommended that you spread the adhesive in the back part of the tile and also on the support, so as to avoid the creation of cavities where water can penetrate, or moisture can be created, which can cause tiles detachment or breaking.

#### CONSUMPTION

Depending on the used trowel	
Notch of trowel (mm)	Consumption (Kg/m <sup>2</sup> )
4 mm	2.0 Kg/m <sup>2</sup>
6 mm	2.7 Kg/m <sup>2</sup>
8 mm	3.3 Kg/m <sup>2</sup>
10 mm	4,0 Kg/m <sup>2</sup>



#### TECHNICAL DATA

Form	Powder
Color	Grey
Density	1550 gr/L
Pot life	1 hour
Temperature of application	+5°C up to +35°C
Open time EN 1346	≥ 10 minutes
Correction time	≥ 25 minutes
Adhesion strength	
- After water immersion	≥ 1,0 N/mm <sup>2</sup>
- After freeze-thaw cycles	≥ 1,0 N/mm <sup>2</sup>
- After heating	≥ 1,0 N/mm <sup>2</sup>
- After normal condition	≥ 1,0 N/mm <sup>2</sup>



#### PACKAGING

DW 2200 RAPID is supplied in paper bags of 25 kg

#### SHELF-LIFE - STORAGE

12 months, if preserved in normal environment and in its original packaging, protected by direct exposure to sun and frost.

## 1.1 ADHESIVE FOR TILES IN FLOORS, WALLS, FACADES AND POOLS

### DW 2200 RAPID PLUS



Unit of measurement	Pieces/Pallet	Consumption	Color/Other specifications
25 kg/sack 6.5 kg/plastic can	54 pcs/pallet 60 pcs/pallet	3-5 kg/m <sup>2</sup>	Grey White



#### DW 2200 RAPID PLUS

Cement-based, bi-component, very flexible adhesive, for the adhesion of ceramic, gres, porcelain, etc, tiles in hard surfaces.

#### CLASSIFICATION OF PRODUCT

DW 2200 RAPID PLUS is classified as C2FTE S2 according to EN 12004, base C cement, 2 adhesive with high adhesive strength, T resistance to slip, E prolonged working time, F fast final drying. According to EN 12002 it is classified as S2, high flexibility.

#### CHARACTERISTICS

- For indoor and outdoor use.
- For moist and dry areas
- Improvement of working parameters
- For fixing ceramic, gres, porcelain tiles in hard surfaces.
- For fixing ceramic, gres and porcelain tiles in gypsum surface, after being treated with DW PRIMER.
- For fixing ceramic, gres and porcelain tiles on old existing tiles.
- For fixing ceramic, gres and porcelain tiles on under-floor heating.
- For fixing ceramic, gres and porcelain tiles on unstable substrates.
- For fixing ceramic, gres and porcelain tiles on unstable facades.

#### AREA OF USE

DW 2200 RAPID PLUS is used for laying ceramic, gres and porcelain tiles, and tiles of different dimensions on various surfaces such as: concrete, isolating coatings, cement, plaster, old tiles, etc. This product is suitable for indoor and outdoor use. DW 2200 RAPID PLUS can also be applied in deformable surfaces, such as: gypsum or wood tiles, under-floor heating thanks to the B component which improves technical adhesive parameters.

#### APPLICATION PROCEDURE

##### Preparation of the surface

Cement-based traditional supports should have a sufficient maturity time of (28 days in temperature 23°C and U.R 40%). Supports should be flat, stable and in function of intended use. The support where the

product will be applied should be clean and free of external materials, such as: paints, oils, varnishes, anti-adhesion materials. Cleaning is made mechanically or manually. Before the application of the product, the plasters should have a maturity time of at least 1week for 1 cm of thickness. The supports should be mechanically stable, in function of intended use. The surface of the support where the product will be applied should be free of any type of external material.

#### APPLICATION

For a better application of the product, and for a good and uniform spreading of it in the entire surface, it is recommended that you firstly lay the product on the support through the straight blade of the trowel, and then through its notched part. The product should be applied with a suitable trowel, depending on the type and dimensions of the tile. It is recommended that after laying the tile, you put pressure on it so that the back part of the tile gets completely saturated. Special conditions, such as: high temperatures or strong winds, sun or substrates with a high absorption of water, affect negatively the performance of the product and can even decrease significantly the spreading and correction time. To avoid these problems, it is recommended to sprinkle the support with water before the application of the adhesive, or to treat it with the liner DW PRIMER. However, in any case, before laying the tiles, it is important that you check if the adhesive has created a "skin". In such cases, you should re-spread the adhesive in order to re-activate its adhesive strength. You should avoid pouring water on the adhesive which has created a "skin" (is solidified) because in such a case, an anti-adhesive layer is created. In cases of coatings and floorings in outdoor environments, especially in cases when the back part of the tile has relief, it is recommended that you spread the adhesive in the pack part of the tile and also on the support, so as to avoid the creation of cavities where water can penetrate, or moisture can be created, which can cause tiles detachment or breaking.



#### TECHNICAL DATA

Form of A component	Powder
Color of A component	Grey
Form of B component	Liquid
Color of B component	White
Density	1550 gr/L
Pot life	1 hour
Temperature of application	+5°C up to +35°C
Open time EN 1346	≥ 30 minutes
Correction time	≥ 45 minutes
Deformability	≥ 5 mm
Adhesion strength	
- After water immersion	≥ 1,0 N/mm <sup>2</sup>
- After freeze-thaw cycles	≥ 1,0 N/mm <sup>2</sup>
- After heating	≥ 1,0 N/mm <sup>2</sup>
- After normal condition	≥ 1,0 N/mm <sup>2</sup>

#### CONSUMPTION

Depending on the used trowel	
Notch of trowel (mm)	Consumption (Kg/m <sup>2</sup> )
4 mm	2.0 Kg/m <sup>2</sup>
6 mm	2.7 Kg/m <sup>2</sup>
8 mm	3.3 Kg/m <sup>2</sup>
10 mm	4,0 Kg/m <sup>2</sup>

#### PACKAGING

DW 2200 RAPID PLUS is supplied in paper bags of 25 kg A component and in plastic cans of 6.5kg B component.

#### SHELF-LIFE - STORAGE

12 months, if preserved in normal environment and in its original packaging, protected by direct exposure to sun and frost.

## 1.1 ADHESIVE FOR TILES IN FLOORS, WALLS, FACADES AND POOLS

### DW KLEBEMÖRTEL 2.5



Unit of measurement	Pieces/Pallet	Consumption	Color/Other specifications
25 kg/sack	54 pcs/pallet	3-5 kg/m <sup>2</sup>	Grey White



#### DW KLEBEMORTEL 2.5

Cement-based, flexible adhesive, for the adhesion of ceramic, gres, porcelain, etc, tiles.

#### CLASSIFICATION OF PRODUCT

DW Klebemörtel 2.5 is classified as C2TE according to EN 12004, base C cement, 2 adhesive with high adhesive strength, T resistance to slip, E extended open time and prolonged working time

#### CHARACTERISTICS

- For indoor and outdoor use
- For moist areas
- Good workability
- For fixing ceramic, gres, porcelain tiles in hard surfaces.
- For fixing ceramic, gres and porcelain tiles in gypsum surface, after being treated with DW PRIMER.
- For fixing ceramic, gres and porcelain tiles on old existing tiles.

#### AREA OF USE

DW KLEBEMORTEL 2.5 is used for laying ceramic, gres and porcelain tiles, and tiles of different dimensions on various surfaces such as: concrete, isolating coatings, cement, plaster, old tiles, etc. This product is suitable for indoor and outdoor use. DW KLEBEMORTEL 2.5 can also be applied in deformable surfaces, such as: gypsum or wood tiles, under-floor heating when it is reinforced with FLEXIT additive, which improves technical adhesive parameters.

#### APPLICATION PROCEDURE

##### Preparation of the surface

Cement-based traditional supports should have a sufficient maturity time of (28 days in temperature 23°C and U.R 40%). Supports should be flat, stable and in function of intended use. The support where the product will be applied should be clean and free of external materials, such as: paints, oils, varnishes, anti-adhesion materials. Cleaning is made mechanically or manually. Before the application of the product, the plasters should have a maturity time of at least 1 week for 1

cm of thickness. The supports should be mechanically stable, in function of intended use. The surface of the support where the product will be applied should be free of any type of external material.

#### APPLICATION

For a better application of the product, and for a good and uniform spreading of it in the entire surface, it is recommended that you firstly lay the product on the support through the straight blade of the trowel, and then through its notched part. The product should be applied with a suitable trowel, depending on the type and dimensions of the tile. It is recommended that after laying the tile, you put pressure on it so that the back part of the tile gets completely saturated. Special conditions, such as: high temperatures or strong winds, sun or substrates with a high absorption of water, affect negatively the performance of the product and can even decrease significantly the spreading and correction time. To avoid these problems, it is recommended to sprinkle the support with water before the application of the adhesive, or to treat it with the liner DW PRIMER. However, in any case, before laying the tiles, it is important that you check if the adhesive has created a "skin". In such cases, you should re-spread the adhesive in order to re-activate its adhesive strength. You should avoid pouring water on the adhesive which has created a "skin" (is solidified) because in such a case, an anti-adhesive layer is created. In cases of coatings and floorings in outdoor environments, especially in cases when the back part of the tile has relief, it is recommended that you spread the adhesive in the pack part of the tile and also on the support, so as to avoid the creation of cavities where water can penetrate, or moisture can be created, which can cause tiles detachment or breaking.



## CONSUMPTION

Depending on the used trowel

Notch of trowel (mm)	Consumption (Kg/m <sup>2</sup> )
4 mm	2.0 Kg/m <sup>2</sup>
6 mm	2.7 Kg/m <sup>2</sup>
8 mm	3.3 Kg/m <sup>2</sup>
10 mm	4,0 Kg/m <sup>2</sup>



## TECHNICAL DATA

Form	Powder
Color	White/Grey
Density	1550 gr/L
Pot life	4 hours
Temperature of application	+5°C up to +35°C
Open time EN 1346	≥ 30 minutes
Correction time	≥ 45 minutes
Slip	≤ 0,5 mm
Adhesion strength	
- After water immersion	≥ 1.0N/mm <sup>2</sup>
- After freeze-thaw cycles	≥ 1,0 N/mm <sup>2</sup>
- After heating	≥ 1,0 N/mm <sup>2</sup>
- After normal condition	≥ 1,0 N/mm <sup>2</sup>

## PACKAGING

DW Klebemortel 2.5 is supplied in paper bags of 25 kg.

## SHELF LIFE - STORAGE

12 month from production date if is stored in original and protected by direct exposure to sun and frost.

## 1.1 ADHESIVE FOR TILES IN FLOORS, WALLS, FACADES AND POOLS

**DW 3000**



Unit of measurement	Pieces/Pallet	Consumption	Color/Other specifications
25 kg/sack	54 pcs/pallet	3-5 kg/m <sup>2</sup>	Grey White



### DW 3000

Cement-based and flexible adhesive, for the adhesion of ceramic, gres, porcelain, etc. tiles.

### CLASSIFICATION OF PRODUCT

DW 3000 is classified as C2TE S1 according to EN 12004, base C cement, 2 adhesive with high adhesive strength, T resistance to slip, and E prolonged working time and S1 as flexible adhesive.

### CHARACTERISTICS

- For indoor and outdoor use
- For moist areas
- Good workability
- For fixing ceramic, gres, porcelain tiles in hard surfaces.
- For fixing ceramic, gres and porcelain tiles in gypsum surface, after being treated with DW PRIMER.
- For fixing ceramic, gres and porcelain tiles on old existing tiles.
- For fixing ceramic, gres and porcelain tiles on under-floor heating

### AREA OF USE

DW 3000 is used for laying ceramic, gres and porcelain tiles, and tiles of different dimensions on various surfaces such as: concrete, isolating coatings, cement, plaster, old tiles, etc. This product is suitable for indoor and outdoor use. DW 3000 can also be applied in deformable surfaces, such as: gypsum or wood tiles, under-floor heating, when it is reinforced with FLEXIT additive; this additive improves technical adhesive parameters.

### APPLICATION PROCEDURE

#### Preparation of the surface

Cement-based traditional supports should have a sufficient maturity time of (28 days in 23°C temperature and U.R 40%). Supports should be flat and stable, in function of intended use. The support where the product will be applied should be clean and free of external materials, such as: paints, oils, varnishes, anti-adhesion materials. Cleaning

is made mechanically or manually. Before the application of the product, the plasters should have a maturity time of at least 1week for 1 cm of thickness. The supports should be mechanically stable, in function of intended use. The surface of the support where the product will be applied should be free of any type of external material.

### APPLICATION

For a better application of the product, and for a good and uniform spreading of it in the entire surface, it is recommended that you firstly lay the product on the support through the straight blade of the trowel, and then through its notched part. The product should be applied with a suitable trowel, depending on the type and dimensions of the tile. It is recommended that after laying the tile, you put pressure on it so that the back part of the tile gets completely saturated. Special conditions, such as: high temperatures or strong winds, sun or substrates with a high absorption of water, affect negatively the performance of the product and can even decrease significantly the spreading and correction time. To avoid these problems, it is recommended to sprinkle the support with water before the application of the adhesive, or to treat it with the liner DW PRIMER. However, in any case, before laying the tiles, it is important that you check if the adhesive has created a "skin". In such cases, you should re-spread the adhesive in order to re-activate its adhesive strength. You should avoid pouring water on the adhesive which has created a "skin" (is solidified) because in such a case, an anti-adhesive layer is created. In cases of coatings and floorings in outdoor environments, especially in cases when the back part of the tile has relief, it is recommended that you spread the adhesive in the back part of the tile and also on the support, so as to avoid the creation of cavities where water can penetrate, or moisture can be created, which can cause tiles detachment or breaking.



## CONSUMPTION

Depending on the used trowel

Notch of trowel (mm)	Consumption (Kg/m <sup>2</sup> )
4 mm	2.0 Kg/m <sup>2</sup>
6 mm	2.7 Kg/m <sup>2</sup>
8 mm	3.3 Kg/m <sup>2</sup>
10 mm	4,0 Kg/m <sup>2</sup>



## TECHNICAL DATA

Form	Powder
Color	White/Grey
Density	1550 gr/L
Pot life	4 hours
Temperature of application	+5°C up to +35°C
Open time EN 1346	≥ 30 minutes
Correction time	≥ 45 minutes
Slip	≤ 0,5 mm
Deformability	≥ 2.5 mm
Adhesion strength	
- After water immersion	≥ 1.0N/mm <sup>2</sup>
- After freeze-thaw cycles	≥ 1,0 N/mm <sup>2</sup>
- After heating	≥ 1,0 N/mm <sup>2</sup>
- After normal condition	≥ 1,0 N/mm <sup>2</sup>



## PACKAGING

DW 3000 is supplied in paper bags of 25 kg.

## SHELF-LIFE - STORAGE

12 months, if preserved in normal environment and in its original packaging, protected by direct exposure to sun and frost.

## 1.1 ADHESIVE FOR TILES IN FLOORS, WALLS, FACADES AND POOLS

### DW 3000 PLUS



Unit of measurement	Pieces/Pallet	Consumption	Color/Other specifications
25 kg/sack 6.5 kg/plastic can	54 pcs/pallet 60 pcs/pallet	3-5 kg/m <sup>2</sup>	White White



#### DW 3000 PLUS

Cement-based, bi-component, very flexible adhesive, for the adhesion of ceramic, gres, porcelain, etc, tiles in hard surfaces.

#### CLASSIFICATION OF PRODUCT

DW 3000 PLUS is classified as C2TE S2 according to EN 12004, base C cement, 2 adhesive with high adhesive strength, T resistance to slip, E prolonged working time. According to EN 12002 it is classified as S2, high flexibility.

#### CHARACTERISTICS

- For indoor and outdoor use.
- For moist and dry areas
- Improvement of working parameters
- For fixing ceramic, gres, porcelain tiles in hard surfaces.
- For fixing ceramic, gres and porcelain tiles in gypsum surface, after being treated with DW PRIMER.
- For fixing ceramic, gres and porcelain tiles on old existing tiles.
- For fixing ceramic, gres and porcelain tiles on under-floor heating.
- For fixing ceramic, gres and porcelain tiles on unstable substrates.
- For fixing ceramic, gres and porcelain tiles on unstable facades.

#### AREA OF USE

DW 3000 PLUS is used for laying ceramic, gres and porcelain tiles, tiles of different dimensions on various surfaces such as: concrete, isolating coatings, cement, plaster, old tiles, etc. This product is suitable for indoor and outdoor use. DW 3000 PLUS can also be applied in deformable surfaces, such as: gypsum or wood tiles, floor with central heating, thanks to the B component which improves technical adhesive parameters.

#### APPLICATION PROCEDURE

##### Preparation of the surface

Cement-based traditional supports should have a sufficient maturity time of (28 days in temperature 23°C and U.R 40%). Supports should be flat, stable and in function of intended use. The support where the

product will be applied should be clean and free of external materials, such as: paints, oils, varnishes, anti-adhesion materials. Cleaning is made mechanically or manually. Before the application of the product, the plasters should have a maturity time of at least 1week for 1 cm of thickness. The supports should be mechanically stable, in function of intended use. The surface of the support where the product will be applied should be free of any type of external material.

#### APPLICATION

For a better application of the product, and for a good and uniform spreading of it in the entire surface, it is recommended that you firstly lay the product on the support through the straight blade of the trowel, and then through its notched part. The product should be applied with a suitable trowel, depending on the type and dimensions of the tile. It is recommended that after laying the tile, you put pressure on it so that the back part of the tile gets completely saturated. Special conditions, such as: high temperatures or strong winds, sun or substrates with a high absorption of water, affect negatively the performance of the product and can even decrease significantly the spreading and correction time. To avoid these problems, it is recommended to sprinkle the support with water before the application of the adhesive, or to treat it with the liner DW PRIMER. However, in any case, before laying the tiles, it is important that you check if the adhesive has created a "skin". In such cases, you should re-spread the adhesive in order to re-activate its adhesive strength. Avoid pouring water on the adhesive which has created a "skin" (is solidified) because in such a case, an anti-adhesive layer is created. In cases of coatings and floorings in outdoor environments, especially in cases when the back part of the tile has relief, it is recommended that you spread the adhesive in the pack part of the tile and also on the support, so as to avoid the creation of cavities where water can penetrate, or moisture can be created, which can cause tiles detachment or breaking.



## CONSUMPTION

Depending on the used trowel

Notch of trowel (mm)	Consumption (Kg/m <sup>2</sup> )
4 mm	2.0 Kg/m <sup>2</sup>
6 mm	2.7 Kg/m <sup>2</sup>
8 mm	3.3 Kg/m <sup>2</sup>
10 mm	4,0 Kg/m <sup>2</sup>

## TECHNICAL DATA

Form of A component	Powder
Color of A component	White
Form of B component	Liquid
Color of B component	White
Density	1550 gr/L
Pot life	4 hours
Temperature of application	+5°C up to +35°C
Open time EN 1346	≥ 30 minutes
Correction time	≥ 45 minutes
Slip	≤ 0,5 mm
Deformability	≥ 5 mm
Adhesion strength	
- After water immersion	≥ 1.0N/mm <sup>2</sup>
- After freeze-thaw cycles	≥ 1,0 N/mm <sup>2</sup>
- After heating	≥ 1,0 N/mm <sup>2</sup>
- After normal condition	≥ 1,0 N/mm <sup>2</sup>



## PACKAGING

DW 3000 PLUS is supplied in paper bags of 25 kg A component and in plastic cans of 6.75kg B component.

## SHELF-LIFE - STORAGE

12 months, if preserved in normal environment and in its original packaging, protected by direct exposure to sun and frost.

## 1.1 ADHESIVE FOR TILES IN FLOORS, WALLS, FACADES AND POOLS

### DW URBAN 40



Unit of measurement	Pieces/Pallet	Consumption	Color/Other specifications
25 kg/sack	54 pcs/pallet	3-5 kg/m <sup>2</sup>	Grey White



#### DW URBAN 40

Cement-based, flexible adhesive for the adhesion of ceramic, gres, porcelain, etc. tiles.

#### CLASSIFICATION OF PRODUCT

DW URBAN 40 is classified as C2TE S2 according to EN 12002 is classified as S2 high flexible adhesive, base C cement, 2 adhesive with high adhesive strength, T resistance to slip, E prolonged working time.

#### CHARACTERISTICS

- For indoor and outdoor use.
- For moist areas
- Good workability
- For fixing ceramic, gres, porcelain tiles in hard surfaces.
- For fixing ceramic, gres and porcelain tiles on gypsum surface, after being treated with DW PRIMER.
- For fixing ceramic, gres and porcelain tiles on old existing tiles.
- For fixing ceramic, gres and porcelain tiles on floors with central heating.
- Suitable for pools.

#### AREA OF USE

DW URBAN 40 is used for laying ceramic, gres and porcelain tiles, and tiles of different dimensions on various surfaces, such as: concrete, isolating coatings, cement, plaster, old tiles, etc. This product is suitable for indoor and outdoor use. DW URBAN 40 can also be applied in deformable surfaces, such as: gypsum or wood tiles, floors with central heating, where it is reinforced with FLEXIT additive; this additive improves technical adhesive parameters.

#### APPLICATION PROCEDURE

##### Preparation of the surface

Cement-based traditional supports should have a sufficient maturity time of (28 days in temperature 23°C and U.R 40%). Supports should be flat, stable and in function of intended use. The support where the

product will be applied should be clean and free of external materials, such as: paints, oils, varnishes, anti-adhesion materials. The cleaning is made mechanically or manually. Before the application of the product, the plasters should have a maturity time of at least 1week for 1 cm of thickness. The supports should be mechanically stable, in function of intended use. The surface of the support where the product will be applied should be free of any type of external materials.

#### APPLICATION

For a better application of the product, and for a good and uniform spreading of it in the entire surface, it is recommended that you firstly lay the product on the support through the straight blade of the trowel, and then through its notched part. The product should be applied with a suitable trowel, depending on the type and dimensions of the tile. It is recommended that after laying the tile, you put pressure on it so that the back part of the tile gets completely saturated. Special conditions, such as: high temperatures or strong winds, sun or substrates with a high absorption of water, affect negatively the performance of the product and can even decrease significantly the spreading and correction time. To avoid these problems, it is recommended to sprinkle the support with water before the application of the adhesive, or to treat it with the liner DW PRIMER. However, in any case, before laying the tiles, it is important that you check if the adhesive has created a "skin". In such cases, you should re-spread the adhesive in order to re-activate its adhesive strength. You should avoid pouring water on the adhesive which has created a "skin" (is solidified) because in such a case, an anti-adhesive layer is created. In cases of coatings and floors in outdoor environments, especially in cases when the back part of the tile has relief, it is recommended that you spread the adhesive in the pack part of the tile and also on the support, so as to avoid the creation of cavities where water can penetrate, or moisture can be created, which can cause tiles detachment or breaking.



## CONSUMPTION

Depending on the used trowel

Notch of trowel (mm)	Consumption (Kg/m <sup>2</sup> )
4 mm	2.0 Kg/m <sup>2</sup>
6 mm	2.7 Kg/m <sup>2</sup>
8 mm	3.3 Kg/m <sup>2</sup>
10 mm	4,0 Kg/m <sup>2</sup>

## TECHNICAL DATA

Form	Powder
Color	White/Grey
Density	1550 gr/L
Pot life	4 hours
Temperature of application	+5°C up to +35°C
Open time EN 1346	≥ 30 minutes
Correction time	≥ 45 minutes
Slip	≤ 0,5 mm
Deformability	≥ 5 mm
Adhesion strength	
- After water immersion	≥ 1.0 N/mm <sup>2</sup>
- After freeze-thaw cycles	≥ 1,0 N/mm <sup>2</sup>
- After heating	≥ 1,0 N/mm <sup>2</sup>
- After normal condition	≥ 1,0 N/mm <sup>2</sup>



## PACKAGING

DW URBAN 40 is supplied in paper bags of 25 kg

## SHELF-LIFE - STORAGE

12 months, if preserved in normal environment and in its original packaging, protected by direct exposure to sun and frost.

## 1.1 ADHESIVE FOR TILES IN FLOORS, WALLS, FACADES AND POOLS

### DW URBANLIGHT 40



Unit of measurement	Pieces/Pallet	Consumption	Color/Other specifications
15 kg/sack	80 pcs/pallet	1.5-2.5 kg/m <sup>2</sup>	White



#### DW URBANLIGHT 40

Cement base tile adhesive, composed from special light weight filler, special cement, produced with Low Dust technology for the adhesion of all types of tiles even in non stable substrate, with improved opening quality.

#### CLASSIFICATION OF PRODUCT

DW URBANLIGHT 40 is classified as C2TE S2 according to EN 12004, base C cement, 2 adhesive with high adhesive strength, T resistance to slip, and E prolonged working time. According to EN 12002 it is classified as S2 high flexible.

#### CHARACTERISTICS

- For indoor and outdoor use
- For moist and dry areas
- Improved working parameters
- Good workability
- For fixing ceramic, gres, porcelain tiles on hard surfaces.
- For fixing ceramic, gres and porcelain tiles on gypsum surface, after being treated with DW PRIMER.
- For fixing ceramic, gres and porcelain tiles on old existing tiles.
- For fixing ceramic, gres and porcelain tiles on floors with central heating system.
- For fixing ceramic, gres and porcelain tiles on unstable substrates
- For fixing ceramic, gres and porcelain tiles on unstable facades.

#### AREA OF USE

DW URBANLIGHT 40 is used for laying ceramic, gres and porcelain tiles, tiles of different dimensions on various surfaces such as: concrete, isolating coatings, cement, plaster, old tiles, etc. This product is suitable for indoor and outdoor use. DW URBANLIGHT 40 can also be applied in deformable surfaces, such as: gypsum or wood tiles, floors with central heating system, thanks to its technical adhesion parameters.

#### APPLICATION PROCEDURE

##### Preparation of the surface

Cement-based traditional supports should have a sufficient maturity time of (28 days in temperature 23°C and U.R 40%). Supports should be flat, stable and in function of intended use. The support where the product will be applied should be clean and free of external materials, such as: paints, oils, varnishes, anti-adhesion materials. Cleaning is made mechanically or manually. Before the application of the product, the plasters should have a maturity time of at least 1 week for 1 cm of thickness. The supports should be mechanically stable, in function of intended use. The surface of the support where the product will be applied should be free of any type of external material.

#### APPLICATION

For a better application of the product, and for a good and uniform spreading of it in the entire surface, it is recommended that you firstly lay the product on the support through the straight blade of the trowel, and then through its notched part. The product should be applied with a suitable trowel, depending on the type and dimensions of the tile. It is recommended that after laying the tile, you put pressure on it so that the back part of the tile gets completely saturated. Special conditions, such as: high temperatures or strong winds, sun or substrates with a high absorption of water, affect negatively the performance of the product and can even decrease significantly the spreading and correction time. To avoid these problems, it is recommended to sprinkle the support with water before the application of the adhesive, or to treat it with the liner DW PRIMER. However, in any case, before laying the tiles, it is important that you check if the adhesive has created a "skin". In such cases, you should re-spread the adhesive in order to re-activate its adhesive strength. You should avoid pouring water on the adhesive which has created a "skin" (is solidified) because in such a case, an anti-adhesive layer is created. In cases of coatings and floorings in outdoor environments, especially in cases when the back part of the tile has relief, it is recommended that you spread the adhesive in the back part of the tile and also on the support, so as to avoid the creation of cavities where water can penetrate, or moisture can be created, which can cause tiles detachment or breaking.



## CONSUMPTION

Depending on the used trowel

Notch of trowel (mm)	Consumption (Kg/m <sup>2</sup> )
4 mm	1.0 Kg/m <sup>2</sup>
6 mm	1.7 Kg/m <sup>2</sup>
8 mm	2.3 Kg/m <sup>2</sup>
10 mm	3,0 Kg/m <sup>2</sup>

## TECHNICAL DATA

Form	Powder
Color	White
Density	1200 gr/L
Pot life	4 hours
Temperature of application	+5°C up to +35°C
Open time EN 1346	≥ 30 minutes
Correction time	≥ 45 minutes
Slip	≤ 0,5 mm
Deformability	≥ 5 mm
Adhesion strength	
- After water immersion	≥ 1,0 N/mm <sup>2</sup>
- After freeze-thaw cycles	≥ 1,0 N/mm <sup>2</sup>
- After heating	≥ 1,0 N/mm <sup>2</sup>
- After normal condition	≥ 1,0 N/mm <sup>2</sup>



## PACKAGING

DW URBANLIGHT 40 is supplied in paper bags of 15 kg.

## SHELF-LIFE - STORAGE

12 months, if preserved in normal environment and in its original packaging, protected by direct exposure to sun and frost.

## 1.1 ADHESIVE FOR TILES IN FLOORS, WALLS, FACADES AND POOLS

### DW 5000



Unit of measurement	Pieces/Pallet	Consumption	Color/Other specifications
5 kg/bucket	60 pcs/pallet	3-5 kg/m <sup>2</sup>	White
25 kg/bucket	27 pcs/pallet		-



#### DW 5000

Thixotropic, elastic, ready to use adhesive; its base consists of the water dispersion of polyacrylic esters and special additives.

#### CLASSIFICATION OF PRODUCT

DW 5000 is classified as D2TE according to EN 12004, dispersion base, 2 improved adhesive strength, E extended open time and T resistance to slip

#### CHARACTERISTICS

Thixotropic, elastic, ready to use adhesive; its base consists of the water dispersion of polyacrylic esters and special additives. It is resistant to moisture, diluted acids, alkaline surfaces (concrete, plaster), and does not affect materials that are sensitive towards diluents. It has a long lifetime, and is sufficient for layers of big surfaces by creating excellent adhesion in varnished surfaces and in rough surfaces too. It shows great initial and final resistance in adhesion. It is ranked in D2TE category according to EN 12004.

#### AREA OF USE

DW 5000 is suitable for adhering tiles, rolo (page 48) with a soft PVC, stadium grass, LINOLEUM and carpet in prefabricated concrete, but not mortar floors, mosaics, MDF floor, marine or wood plywood, in liner or galvanized metal sheets. It is perfect for lying thermal isolation tiles of inflated or laminated polyester, polyurethane and plug panels (polyurethane and cork panels, page 48) in concrete, plaster, porobeton masonry, in indoor and outdoor surfaces. It is suitable for an isolated lying of ceramic tiles in wood and its products. It is also offered for mounting in environments where there is significant movement, such as hospitals, hotels, and in environments with vibrations, such as ships, etc.

#### APPLICATION PROCEDURE

##### Preparation of the surface

Cement-based traditional supports should have a sufficient maturity

time of (28 days in 23°C temperature and U.R 40%). Supports should be flat and stable, in function of intended use. The support where the product will be applied should be clean and free of external materials, such as: paints, oils, varnishes, anti-adhesion materials. Cleaning is made mechanically or manually. Before the application of the product, the plasters should have a maturity time of at least 1week for 1 cm of thickness. The supports should be mechanically stable, in function of intended use. The surface of the support where the product will be applied should be free of any type of external material.

#### APPLICATION

The adhesive is laid only in one layer as it is, through a metallic notched, 3-5mm wide spatula, in horizontal or vertical surfaces. Then, you comb as much of the surface as you need to work for the next 30-40 minutes, analogously to weather conditions, thus avoiding the creation of adhesive "skin". The products which will be attached are laid in a way to allow the possibility of doing micro-repairs, by exerting slight pressure on them.

#### CONSUMPTION

Depending on the used trowel	
Notch of trowel (mm)	Consumption (Kg/m <sup>2</sup> )
4 mm	2.0 Kg/m <sup>2</sup>
6 mm	2.7 Kg/m <sup>2</sup>
8 mm	3.3 Kg/m <sup>2</sup>
10 mm	4,0 Kg/m <sup>2</sup>



#### TECHNICAL DATA

Form- Color	White paste
Temperature of application	From +5°C up to +35°C
Thermal resistance	From - 3°C up to +60°C
Open time of application	About 40 minutes
Time of micro repair	About 3-5 hours
Horizontal slip	≤ 0,5 mm
Resistance to disconnect after 7 days	1,5 N/mm <sup>2</sup>
Specific weight	1,22 Kg/L



#### PACKAGING

It is supplied in plastic buckets of 5 and 25 kg.

#### SHELF-LIFE - STORAGE

It is preserved in its original, well-closed packaging, in dry, shady and low-moist environments, for at least 12 months from the date of its production.



## 1.1 ADHESIVE FOR TILES IN FLOORS, WALLS, FACADES AND POOLS

### DW FIRE



Unit of measurement	Pieces/Pallet	Consumption	Color/Other specifications
5 kg/bag 25 kg/sack	4 pcs/pallet 54 pcs/pallet	- 1.5-2.5 kg/m <sup>2</sup>	Grey



#### DW FIRE

Refractory mortar, with cement, synthetic resins and special additives for environments of high temperatures.

#### CHARACTERISTICS

Cement-based powder for environments with high temperatures and high mechanical resistance, for fillings in a thickness of 20 mm/layer. It does not contract, nor does it create cracks. It provides an excellent workability, adhesiveness, resistance to high temperatures and strikes. Thanks to its hydraulic connections, special polymers, selected inerts and synthetic fibers, it does not crack nor slip in large thicknesses.

#### AREA OF USE

DW FIRE is applied in all of those environments where a high resistance to temperatures is required, such as: furnaces, fireplaces, etc.

#### APPLICATION PROCEDURE

##### Preparation of the surface

The bricks and surface where the application will be done should be stable and mechanically resistant.

#### APPLICATION

Pour the product in clean water, 25 kg powder in 5,5 water and stir with a low speed agitator or concrete mixer until you see the creation of a homogeneous mixture, suitable for any type of use. The mixture remains workable for 3 hours and is applied through a trowel for masonry or plasters.

#### CONSUMPTION

Approximately 18 kg/m<sup>2</sup> /cm thickness of layer.

#### SHELF-LIFE - STORAGE

It is preserved in its original, well-closed packaging, in dry, shady and low-moist environments, for at least 12 months from the date of its production.

#### TECHNICAL DATA

Form- Color	Cement dust- grey
Toxic/flammable	No
(according to EN 88/379)	
Specific weight of dry powder	1,47 ± 0,05 Kg/lt
Specific weight of wet dust	2,00 ± 0,05 Kg/lt
The maximum diameter of particle	1.5 mm
Water demand	5,5 lt water in 25 Kg powder
Temperature of application	From +5°C up to +35°C
Thermal resistance	From -30°C up to +1000°C
Pot life in container	3 hours
Maximum thickness for application	2 cm

#### MECHANICAL RESISTANCE

Resistance to flexion at 28 days	according to EN 196 - 18,00 ± 1,00N/mm <sup>2</sup>
Resistance to compression according to EN 196 - 1 in	
• 48 hours	22,00 ± 3,00 N/mm <sup>2</sup>
• 7 days	30,00 ± 2,00 N/mm <sup>2</sup>
• 28 days	50,00 ± 1,00 N/mm <sup>2</sup>



## 1.1 ADHESIVE FOR TILES IN FLOORS, WALLS, FACADES AND POOLS

# DW HOLZFIX



Unit of measurement	Pieces/Pallet	Consumption	Color/Other specifications
25 kg/sack	54 pcs/pallet	3-5 - 5 kg/m <sup>2</sup>	White Grey



**DW HOLZFIX**

Cement-based, bi-component, very flexible adhesive, for the adhesion of ceramic, gres, porcelain, etc, tiles in hard surfaces.

### CLASSIFICATION OF PRODUCT

DW HOLZFIX is classified as C2S2 according to EN 12004,, base C cement, 2 adhesive with high adhesive strength. According to EN 12002 it is classified as S2, high flexibility.

## CHARACTERISTICS

- For indoor and outdoor use.
- For moist and dry areas
- Improvement of working parameters
- For fixing ceramic, gres, porcelain tiles in hard surfaces.
- For fixing ceramic, gres and porcelain tiles in gypsum surface, after being treated with DW PRIMER.
- For fixing ceramic, gres and porcelain tiles on old existing tiles.
- For fixing ceramic, gres and porcelain tiles on under-floor heating.
- For fixing ceramic, gres and porcelain tiles on unstable wood substrates.

## AREA OF USE

DW HOLZFIX is used for laying ceramic, gres and porcelain tiles, and tiles of different dimensions on various surfaces such as: concrete, isolating coatings, cement, plaster, old tiles, etc. This product is suitable for indoor and outdoor use. DW HOLZFIX can also be applied in deformable surfaces, such as: gypsum or wood tiles, central heating floors. thanks to technical parameters of the product.

## APPLICATION PROCEDURE

### Preparation of the surface

Cement-based traditional supports should have a sufficient maturity time of (28 days in temperature 23°C and U.R 40%). Supports should be flat, stable and in function of intended use. The support where the product will be applied should be clean and free of external materials.

## PROCEDURANESAPLIKASIMATI

[illegible]



#### CONSUMPTION

Depending on the used trowel

Notch of trowel (mm)	Consumption (Kg/m <sup>2</sup> )
4 mm	2.0 Kg/m <sup>2</sup>
6 mm	2.7 Kg/m <sup>2</sup>
8 mm	3.3 Kg/m <sup>2</sup>
10 mm	4,0 Kg/m <sup>2</sup>



#### TECHNICAL DATA

Form	powder
Color	White/Grey
Density	1550 gr/L
Pot life	4 hours
Temperature of application	+5°C up to +35°C
Open time EN 1346	≥ 20 minutes
Correction time	≥ 30 minutes
Adhesion strength	
- After water immersion	≥ 1.0N/mm <sup>2</sup>
- After freeze-thaw cycles	≥ 1,0 N/mm <sup>2</sup>
- After heating	≥ 1,0 N/mm <sup>2</sup>
- After normal condition	≥ 1,0 N/mm <sup>2</sup>



#### PACKAGING

DW HOLZFIX is supplied in paper bags of 25 kg.

#### SHELF-LIFE - STORAGE

12 months, if preserved in normal environment and in its original packaging, protected by direct exposure to sun and frost.

## 1.1 ADHESIVE FOR TILES IN FLOORS, WALLS, FACADES AND POOLS

### DW SELFWETTING



Unit of measurement	Pieces/Pallet	Consumption	Color/Other specifications
25 kg/sack	54 pcs/pallet	3-5 - 5 kg/m <sup>2</sup>	Grey



#### DW SELFWETTING

Cement-based adhesive with a prolonged working time and quick solidifying time, for the adhesion of ceramic, gres, porcelain, etc. tiles.

#### CLASSIFICATION OF PRODUCT

DW SELFWETTING classified as C2FTE according to EN 12004, base C cement, 2 adhesive with high adhesive strength, T resistance to slip, E prolonged working time, F fast final setting.

#### CHARACTERISTICS

- For indoor and outdoor use.
- For moist and dry areas
- Improvement of working parameters
- For fixing ceramic, gres, porcelain tiles in hard surfaces.
- For fixing ceramic, gres and porcelain tiles in gypsum surface, after being treated with DW PRIMER.
- For fixing ceramic, gres and porcelain tiles on old existing tiles.
- For fixing ceramic, gres and porcelain tiles on under-floor heating.

#### AREA OF USE

DW SELFWETTING is used for laying ceramic, gres and porcelain tiles, and tiles of different dimensions on various surfaces such as: concrete, isolating coatings, cement, plaster, old tiles, etc. This product is suitable for indoor and outdoor use.

#### APPLICATION PROCEDURE

##### Preparation of the surface

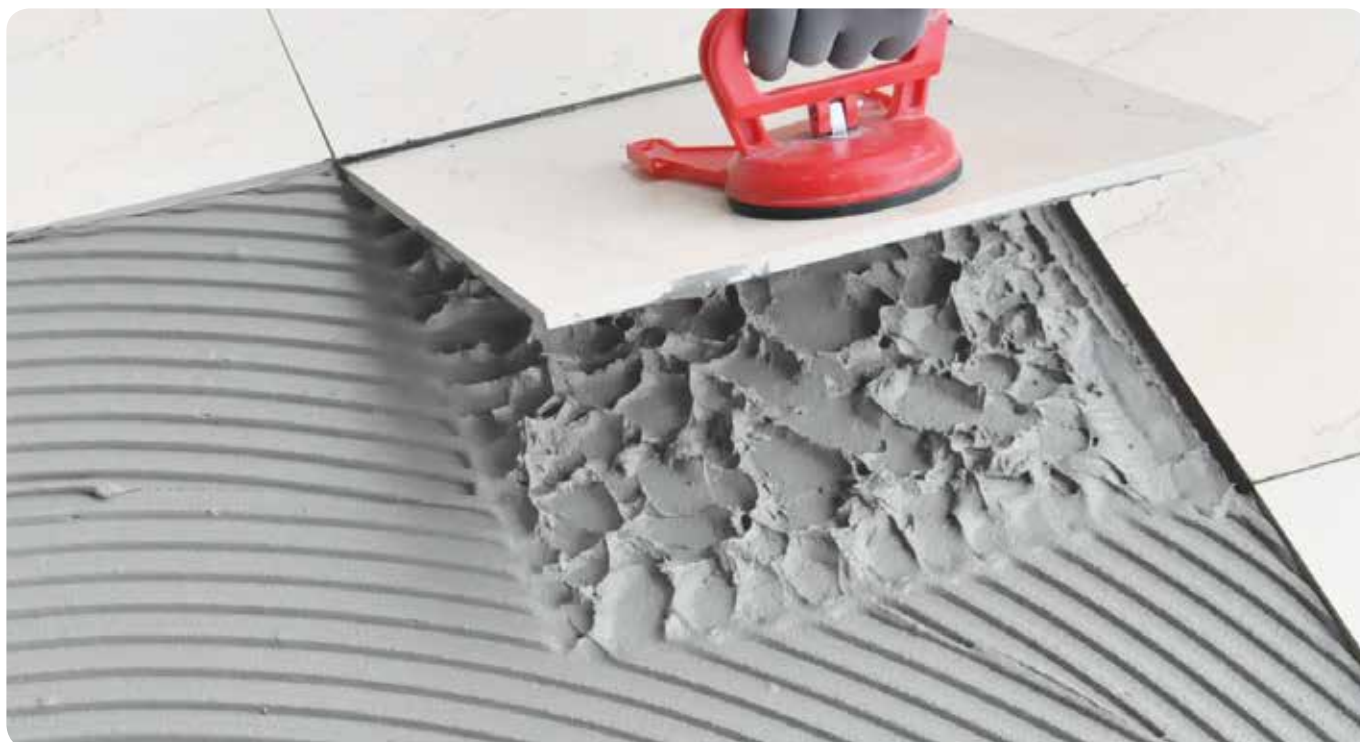
Cement-based traditional supports should have a sufficient maturity time of (28 days in temperature 23°C and U.R 40%).

Supports should be flat, stable and in function of intended use. The support where the product will be applied should be clean and free of external materials, such as: paints, oils, varnishes, anti-adhesion materials. Cleaning is made mechanically or manually. Before the application of the product, the plasters should have a maturity time of at least 1week for 1 cm of thickness. The supports should be me-

chanically stable, in function of intended use. The surface of the support where the product will be applied should be free of any type of external material.

#### APPLICATION

For a better application of the product, and for a good and uniform spreading of it in the entire surface, it is recommended that you firstly lay the product on the support through the straight blade of the trowel, and then through its notched part. The product should be applied with a suitable trowel, depending on the type and dimensions of the tile. It is recommended that after laying the tile, you exert pressure on it so that the back part of the tile gets completely saturated. Special conditions, such as: high temperatures or strong winds, sun or substrates with a high absorption of water, affect negatively the performance of the product and can even decrease significantly the spreading and correction time. To avoid these problems, it is recommended to sprinkle the support with water before the application of the adhesive, or to treat it with the liner DW PRIMER. However, in any case, before laying the tiles, it is important that you check if the adhesive has created a "skin". In such cases, you should re-spread the adhesive in order to re-activate its adhesive strength. You should avoid pouring water on the adhesive which has created a "skin" (is solidified) because in such a case, an anti-adhesive layer is created. In cases of coatings and floors in outdoor environments, especially when the back part of the tile has relief, it is recommended that you spread the adhesive in the pack part of the tile and also on the support, so as to avoid the creation of cavities where water can penetrate, or moisture can be created, which can cause tiles detachment or breaking.



## CONSUMPTION

Depending on the used trowel

Notch of trowel (mm)	Consumption (Kg/m <sup>2</sup> )
4 mm	2.0 Kg/m <sup>2</sup>
6 mm	2.7 Kg/m <sup>2</sup>
8 mm	3.3 Kg/m <sup>2</sup>
10 mm	4,0 Kg/m <sup>2</sup>



## TECHNICAL DATA

Form	Powder
Color	Grey
Density	1550 gr/L
Pot life	1 hour
Temperature of application	+5°C up to +35°C
Open time EN 1346	≥ 30 minutes
Correction time	≥ 45 minutes
Slip	≤ 0,5 mm
Adhesion strength	
- After water immersion	≥ 1.0 N/mm <sup>2</sup>
- After freeze-thaw cycles	≥ 1,0 N/mm <sup>2</sup>
- After heating	≥ 1,0 N/mm <sup>2</sup>
- After normal condition	≥ 1,0 N/mm <sup>2</sup>



## PACKAGING

DW SELFWETTING is supplied in paper bags of 25 kg.

## SHELF-LIFE - STORAGE

12 months, if preserved in normal environment and in its original packaging, protected by direct exposure to sun and frost.

## 1.2 ADHESIVE FOR MARBLE

### DW MARMOFLEX



Unit of measurement	Pieces/Pallet	Consumption	Color/Other specifications
25 kg/sack	54 pcs/pallet	3 - 5 kg/m <sup>2</sup>	White



#### DW MARMOFLEX

Cement-based and flexible adhesive, for the adhesion of marble and granite tiles.

#### CLASSIFICATION OF PRODUCT

DW Marmoflex is classified as C2TE according to EN 12004, base C cement, 2 adhesive with high adhesive strength, T resistance to slip, and E prolonged working time.

#### CHARACTERISTICS

- For indoor and outdoor use
- For moist and dry areas
- Improving working parameters
- For fixing marble and granite tiles in hard surfaces.
- For fixing marble and granite tiles in gypsum surface, after being treated with DW PRIMER.
- For fixing marble and granite tiles on old existing tiles.
- For fixing marble and granite tiles on under-floor heating.

#### AREA OF USE

DW Marmoflex is used for laying marble and granite tiles, and tiles of different dimensions on various surfaces such as: concrete, isolating coatings, cement, plaster, old tiles, etc. This product is suitable for indoor and outdoor use.

#### APPLICATION PROCEDURE

##### Preparation of the surface

Cement-based traditional supports should have a sufficient maturity time of (28 days in 23°C temperature and U.R 40%). Supports should be flat and stable, in function of intended use. The support where the product will be applied should be clean and free of external materials, such as: paints, oils, varnishes, anti-adhesion materials. Cleaning is made mechanically or manually. Before the application of the product, the plasters should have a maturity time of at least 1 week for 1 cm of thickness. The supports should be mechanically

stable, in function of intended use. The surface of the support where the product will be applied should be free of any type of external material.

#### APPLICATION

For a better application of the product, and for a good and uniform spreading of it in the entire surface, it is recommended that you firstly lay the product on the support through the straight blade of the trowel, and then through its notched part. The product should be applied with a suitable trowel, depending on the type and dimensions of the tile. It is recommended that after laying the tile, you put pressure on it so that the back part of the tile gets completely saturated. Special conditions, such as: high temperatures or strong winds, sun or substrates with a high absorption of water, affect negatively the performance of the product and can even decrease significantly the spreading and correction time. To avoid these problems, it is recommended to sprinkle the support with water before the application of the adhesive, or to treat it with the liner DW PRIMER. However, in any case, before laying the tiles, it is important that you check if the adhesive has created a "skin". In such cases, you should re-spread the adhesive in order to re-activate its adhesive strength. You should avoid pouring water on the adhesive which has created a "skin" (is solidified) because in such a case, an anti-adhesive layer is created. In cases of coatings and floorings in outdoor environments, especially in cases when the back part of the tile has relief, it is recommended that you spread the adhesive in the pack part of the tile and also on the support, so as to avoid the creation of cavities where water can penetrate, or moisture can be created, which can cause tiles detachment or breaking.



#### TECHNICAL DATA

Form	Powder
Color	White
Density	1550 gr/L
Pot life	4 hours
Temperature of application	+5°C up to +35°C
Open time EN 1346	≥ 30 minutes
Correction time	≥ 45 minutes
Slip	≤ 0,5 mm
Adhesion strength	
- After water immersion	≥ 1.0N/mm <sup>2</sup>
- After freeze-thaw cycles	≥ 1,0 N/mm <sup>2</sup>
- After heating	≥ 1,0 N/mm <sup>2</sup>
- After normal condition	≥ 1,0 N/mm <sup>2</sup>

#### CONSUMPTION

Depending on the used trowel	
Notch of trowel (mm)	Consumption (Kg/m <sup>2</sup> )
4 mm	2.0 Kg/m <sup>2</sup>
6 mm	2.7 Kg/m <sup>2</sup>
8 mm	3.3 Kg/m <sup>2</sup>
10 mm	4,0 Kg/m <sup>2</sup>



#### PACKAGING

DW Marmoflex is supplied in paper bags of 25 kg.

#### SHELF-LIFE - STORAGE

12 months, if preserved in normal environment and in its original packaging, protected by direct exposure to sun and frost.

## 1.3 ADHESIVES FOR NATURAL STONE AND TERRACOTA

### DW GRANDFIX



Unit of measurement	Pieces/Pallet	Consumption	Color/Other specifications
25 kg/sack	54 pcs/pallet	3 - 5 kg/m <sup>2</sup>	Grey White



#### DW GRANDFIX

Cement-based, flexible adhesive, for the adhesion of natural stone tiles.

#### CLASSIFICATION OF PRODUCT

DW GRANDFIX is classified as C2TE according to EN 12004, base C cement, 2 adhesive with high adhesive strength, T resistance to slip, and E prolonged working time.

#### CHARACTERISTICS

- For indoor and outdoor use
- For moist and dry areas
- Good workability
- For fixing natural stone tiles in floors and facades.

#### AREA OF USE

DW GRANDFIX is used for laying ceramic, gres and porcelain tiles, tiles of different dimensions on various surfaces such as: concrete, isolating coatings, cement, plaster, old tiles, etc. This product is suitable for indoor and outdoor use. DW GRANDFIX can also be applied in deformable surfaces, such as: gypsum or wood tiles, central heating floors when it is reinforced with FLEXIT additive, which improves technical adhesive parameters.

#### APPLICATION PROCEDURE

##### Preparation of the surface

Cement-based traditional supports should have a sufficient maturity time of (28 days in temperature 23°C and U.R 40%). Supports should be flat, stable and in function of intended use. The support where the product will be applied should be clean and free of external materials, such as: paints, oils, varnishes, anti-adhesion materials. Cleaning is made mechanically or manually. Before the application of the product, the plasters should have a maturity time of at least 1week for 1 cm of thickness. The supports should be mechanically stable, in function of intended use. The surface of the support where the product will be applied should be free of any type of external material.

#### APPLICATION

For a better application of the product, and for a good and uniform spreading of it in the entire surface, it is recommended that you firstly lay the product on the support through the straight blade of the trowel, and then through its notched part. The product should be applied with a suitable trowel, depending on the type and dimensions of the tile. It is recommended that after laying the tile, you put pressure on it so that the back part of the tile gets completely saturated. Special conditions, such as: high temperatures or strong winds, sun or substrates with a high absorption of water, affect negatively the performance of the product and can even decrease significantly the spreading and correction time. To avoid these problems, it is recommended to sprinkle the support with water before the application of the adhesive, or to treat it with the liner DW PRIMER. However, in any case, before laying the tiles, it is important that you check if the adhesive has created a "skin". In such cases, you should re-spread the adhesive in order to re-activate its adhesive strength. You should avoid pouring water on the adhesive which has created a "skin" (is solidified) because in such a case, an anti-adhesive layer is created. In cases of coatings and floorings in outdoor environments, especially in cases when the back part of the tile has relief, it is recommended that you spread the adhesive in the back part of the tile and also on the support, so as to avoid the creation of cavities where water can penetrate, or moisture can be created, which can cause tiles detachment or breaking.



#### CONSUMPTION

Depending on the used trowel

Notch of trowel (mm)	Consumption (Kg/m <sup>2</sup> )
4 mm	2.0 Kg/m <sup>2</sup>
6 mm	2.7 Kg/m <sup>2</sup>
8 mm	3.3 Kg/m <sup>2</sup>
10 mm	4,0 Kg/m <sup>2</sup>



#### TECHNICAL DATA

Form	Powder
Color	White/Grey
Density	1550 gr/L
Pot life of mortar	4 hours
Temperature of application	+5°C up to +35°C
Open time EN 1346	≥ 30 minutes
Correction time	≥ 45 minutes
Slip	≤ 0,5 mm
Adhesion strength	
- After water immersion	≥ 1.0N/mm <sup>2</sup>
- After freeze-thaw cycles	≥ 1,0 N/mm <sup>2</sup>
- After heating	≥ 1,0 N/mm <sup>2</sup>
- After normal condition	≥ 1,0 N/mm <sup>2</sup>



#### PACKAGING

DW GRANDFIX is supplied in paper bags of 25 kg.

#### SHELF-LIFE - STORAGE

12 months, if preserved in normal premises and in its original packaging, protected by the direct exposure to sun and frost.

## 1.4 ADHESIVE FOR GLASS BRICKS

### DW VETROSYSTEM



Unit of measurement	Pieces/Pallet	Consumption	Color/Other specifications
25 kg/sack	54 pcs/pallet	3 - 5 kg/m <sup>2</sup>	White



#### DW VETROSYSTEM

Adhesive for the adhesion and filling of joints in glass brick walls.

#### CLASSIFICATION OF PRODUCT

DW GRANDFIX is classified as C2TE according to EN 12004, base C cement, 2 adhesive with high adhesive strength, T resistance to slip, and E prolonged working time.

#### TECHNICAL FEATURES

-DW VetroSystem is a material of based on cement, sand with selected granulometry, synthetic resins and additives.  
-It creates a very good and stable adhesion in time.

#### TECHNICAL DATA (IN 23°C AND 50% U.R)

Form	Powder
Color	White
Shelf-life storage	12 months in original packaging and dry environment
Combustibility	Incombustible
Mixing ratio	6 - 6.5 liters of water for 25 Kg DW VETROSYSTEM
Pot life	3 - 4 hours
Mixture volumetric measure	1.7 gr/cm <sup>3</sup>
pH of the mixture	12
Temperature of application	+5°C up to +35°C
Open time	≥ 35 minutes
Reaching the final hardness	after 14 days

#### FINAL DATA

Resistance to compression	13 N/mm <sup>2</sup>
Resistance to flexion	6.5 N/mm <sup>2</sup>
Resistance to moisture	good

#### AREA OF USE

It is used for the adhesion of glass bricks in vertical walls, in outdoor and indoor environments.

#### INSTALLATION OF GLASS BRICKS

For the application of DW VetroSystem to adhere glass bricks use metal screed or trowel. The material is spread on both surfaces that will adhere so as to ensure a better adhesion. It is necessary that the glass bricks are compressed during their installation so that the excessive adhesive gets out. Once removed the excess adhesive, joints should be made uniform through a damp sponge. In the end, it is cleaned with a dry and clean buckram.





## 1.5 ADHESIVE EPOXY BASE

### DW 7000 EPOXY



Unit of measurement	Pieces/Pallet	Consumption	Color/Other specifications
5 kg/A&B	60 pcs/pallet	1.5 kg/m <sup>2</sup> / mm	White
10 kg/A&B	36 pcs/pallet		



#### DW 7000 EPOXY

Two component epoxy base tile adhesive, free of solvents. It is characterized by high resistance to compression, flexural and adhesive strength. DW 7000 EPOXY is resistant to some acids, alkalis, corrosive concrete agents, cleaning agents, sea water and salt water.

#### CLASSIFICATION OF PRODUCT

According to EN 12004 standard, it is classified as R2T tile adhesive, with improved adhesive strength and without vertical slip.

#### CHARACTERISTICS

The product is characterized by outstanding workability, and the work tools easily cleaned with water before the solidification of the product.

#### AREA OF APPLICATION:

DW 7000 EPOXY is applied in those environments where high strength to mechanical loads and resistance to chemical agents is required. The product is used for adhering tiles in industrial environments. It is used for fixing tiles on the walls, and for filling joints in walls in industrial environments, such as: breweries, dairies, laboratories, slaughterhouses and in other sectors of food or chemical industry, as well as swimming pools, kitchens etc. It is suitable for fixing tiles in different surfaces, such as concrete, mortar, metal, wood, etc. it can also be used for filling joints up to 6 mm wide.

#### APPLICATION PROCEDURE

##### 1. Preparation of the surface

The surface should be dry, clean, stable, slightly rough and free of materials that prevent adhesion, such as: dust, oils etc. If necessary, the surface should be pre-prepared by washing, roughening, etc. in cases of walls, they should be rubbed with a wire brush or another similar item.

#### 2. Product Preparation

Component A (resin) and component B (solidifier) are supplied in two separate buckets in a predetermined proportion to weight ratio. The whole quantity of component B should be added to component A. the stirring of the two components should be made for about 5 minutes, by using a low speed agitator (300 rotations/ min). It is important to stir well in the edges and bottom of the bucket so as to achieve a thorough mixture and a uniform distribution of the solidifier.

#### APPLICATION

##### a) As Adhesive

The product should be applied using a notched screed so as to achieve a uniform opening of the product in the entire surface. Tiles are placed on the opened material by pressing and moving them until they reach the desired position.

##### b) As Grout

Joints should be clean and dry so as to apply the product through a rubber screed in a diagonal direction to the direction of the joint; this way, you will achieve a complete filling and will remove the excess material. After DW 7000 EPOXY gets sufficiently dried, the excess quantity on the tiles is removed by using a wet and smooth sponge. After that, make the final cleaning with a clean sponge. Using lukewarm water makes cleaning easier. For a better cleaning, add 10% of solvent into the water that you will use for cleaning.

#### PACKAGING

DW 7000 EPOXY is supplied in 5 kg and 10 Kg in proportion with the predetermined weight mixture. The bucket of B component is inserted in the container of A component.

#### SHELF-LIFE-STORAGE

24 months from the production date, if preserved in its original closed packaging, in environments protected by moisture and direct exposure to sun. Storage temperature should be between +5°C and +35°C.



#### TECHNICAL DATA (IN 23°C AND 50% U.R)

Base	Bi-component epoxy resin
Color	White
Viscosity	80,000 mPa.s
The mixing ratio	4:1 in weight
Density	1,73 Kg/lit
Pot life	Approximately 60 min in 23°C
Cleaning	in 45 min in 23°C
Passing	after 16 h in 23°C
Minimal solidifying temperature	+10°C
Partial solidification	after 48 h in 23°C
Full solidification	after 7 days in +23°C
Resistance to compression	62,8 N/mm <sup>2</sup> ( DIN EN 196 - 1 )
Flexural strength	> 35 N/mm <sup>2</sup> ( DIN EN 196 - 1 )
Adhesion strength	(7 days) > 5,6 N/mm <sup>2</sup>
Adhesion strength after immersion in water	> 5,1 N/mm <sup>2</sup>
Adhesion strength after heat	> 4,5 N/mm <sup>2</sup>
Slip	≤ 0,5 mm
All measurements were conducted according to EN 12004	
Cleaning tools	Tools should be cleaned with water after each work interruption



## 1.5 ADHESIVE EPOXY BASE

### DW 7100 EPOFAST



Unit of measurement	Pieces/Pallet	Consumption	Color/Other specifications
1 kg/A&B	60 pcs/box	1.5 kg/m <sup>2</sup> / mm	White
10 kg/A&B	36 pcs/pallet		



#### DW 7100 EPOFAST

Free of solvents. It is characterized by high resistance to compression, flexion and adhesive strength. DW 7100 EPOFAST is resistant to some acids, alkalis, corrosive concrete agents, cleaning agents, sea water and salt water.

#### CLASSIFICATION OF PRODUCT

According to EN 12004 standard, it is classified as R2FT tile adhesive, with improved adhesive strength, fast drying time and without vertical slip.

#### CHARACTERISTICS

The product is characterized by outstanding workability, and the work tools easily cleaned with water before the solidification of the product.

#### AREA OF APPLICATION:

DW 7100 EPOFAST is applied in those environments where high strength to mechanical loads and resistance to chemical agents is required. The product is used for adhering tiles in industrial environments. It is used for fixing tiles on the walls, and for filling joints in walls in industrial environments, such as: breweries, dairies, laboratories, slaughterhouses and in other food sectors or chemical industry, as well as swimming pools, kitchens etc. It is suitable for fixing tiles in different surfaces, such as concrete, mortar, metal, wood, etc. it can also be used for filling joints up to 6 mm wide.

#### APPLICATION PROCEDURE

##### 1. Preparation of the surface:

The surface should be dry, clean, stable, slightly rough and free of materials that prevent adhesion, such as: dust, oils etc. If necessary, the surface should be pre-prepared by washing, roughening, etc. in cases of walls, they should be rubbed with a wire brush or another similar item.

#### 2. Product Preparation:

Component A (resin) and component B (solidifier) are supplied in two separate buckets in a predetermined proportion to weight ratio. The entire quantity of component B is added to component A. The stirring of the two components should be made for about 5 minutes, by using a low speed agitator (300 rotations/ min). It is important to stir well in the edges and bottom of the bucket so as to achieve a full mixture and a uniform distribution of the solidifier.

#### APPLICATION

##### a) As Adhesive

The product should be applied using a notched screed so as to achieve a uniform opening of the product in the entire surface. Tiles are placed on the opened material by pressing and moving them until they reach the desired position.

##### b) As Grout

Joints should be clean and dry so as to apply the product through a rubber trowel in a diagonal direction to the direction of the joint; this way, you will achieve a complete filling and will remove the excess material. After DW 7100 EPOFAST is sufficiently dried, the excess quantity on the tiles is removed by using a wet and smooth sponge. After that, make the final cleaning through a clean sponge. Using lukewarm water makes cleaning easier. For a better cleaning, add 10% of solvent into the water that you will use for cleaning.

#### PACKAGING

DW 7100 EPOFAST is available in 1 kg and 10 Kg in proportion with the predetermined weight mixture. The bucket of B component is inserted in the container of A component.

#### SHELF-LIFE-STORAGE

24 months from the production date, if preserved in its original closed packaging, in environments protected by moisture and direct exposure to sun. Storage temperature should be between +5°C and +35°C.



#### TECHNICAL DATA

Base	Bi-component epoxy resin
Color	White
Viscosity	1,000,000 mPa.s
The mixing ratio	1:1 in weight
Density	1,73 Kg/lit in 23°C
Pot life	Approximately 30 min in 23°C
Cleaning	in 30 min in 23°C
Passing	6 h in 23°C
Minimal solidifying temperature	+10°C
Partial solidification	after 2 h in 23°C
Full solidification	after 6 hours in +23°C
Resistance to compression	65N/mm <sup>2</sup> ( DIN EN 196 - 1 )
Flexural strength	> 40 N/mm <sup>2</sup> ( DIN EN 196 - 1 )
Adhesion strength	( after 7 days ) > 6 N/mm <sup>2</sup>
Adhesion strength after immersion in water	> 6 N/mm <sup>2</sup>
Adhesion strength after heat	> 6 N/mm <sup>2</sup>
Slip	≤ 0,5 mm
All measurements were conducted according to EN 12004.	
Cleaning tools	Tools should be cleaned with water after each work interruption



## 1.5 ADHESIVE EPOXY BASE

### DW 9000 EPO-UNI



Unit of measurement	Pieces/Pallet	Consumption	Color/Other specifications
1 kg/A&B 10 kg/A&B	12 pcs/box 60 pcs/pallet	1.5 kg/m <sup>2</sup> / mm	Grey -



#### DW 9000 Epo–Uni

Is a bi-component tile adhesive, free of solvents. It is characterized by high resistance to compression, flexion and adhesive strength. DW 9000 Epo - Uni is resistant to some acids, alkalis, corrosive concrete agents, cleaning agents, sea water and salt water. The product is characterized by an excellent workability, and the work tools are easily cleaned with water before the solidification of the product.

#### AREA OF USE

DW 9000 Epo–Uni is applied in those environments where high strength to mechanical loads and resistance to chemical agents is required. The product is used for adhering tiles in industrial environments.

DW 9000 Epo–Uni serves for the adhesion of TPE membranes in the dilatation joints, by resisting negative and positive pressures.

#### APPLICATION PROCEDURE

##### 1. Preparation of the surface:

The surface should be dry, clean, stable, slightly rough and free of materials that prevent adhesion, such as: dust, oils etc.

If necessary, the surface should be pre-prepared by washing, roughening, etc. In cases of walls, they should be rubbed with a wire brush or another similar item.

##### 2. Product Preparation:

Component A (resin) and component B (solidifier) are supplied in two separate buckets in a predetermined proportion in weight ratio. The entire quantity of component B is added to component A. The stirring of the two components should be made for about 5 minutes, by using a low speed agitator (300 rotations/ min). It is important to stir well in the edges and bottom of the bucket so as to achieve a full mixture and a uniform distribution of the solidifier.

#### 3. Application procedure

##### Attachment

The product should be applied using a notched trowel or a spatula so as to achieve a uniform opening in the entire surface. The materials that are going to be attached is placed onto the opened material by pressing and moving them until they reach the desired position.

##### Isolation of dilatation joints:

Joints should be clean and dry so as to apply the product through a metallic spatula in 1mm of thickness, in the same direction to the direction of the joint. Before the application of the product, 2 cm from the angle of the joint is covered on both sides with adhesive paper. After the application of the product, remove the adhesive paper. After that, place the TPE membrane, passing with a spatula in order to avoid the creation of air bubbles. Following that, put a 5 –cm- wide adhesive paper in the TPE membranes, and onto that apply 1.5 mm DW 9000 Epo - Uni.

#### CONSUMPTION

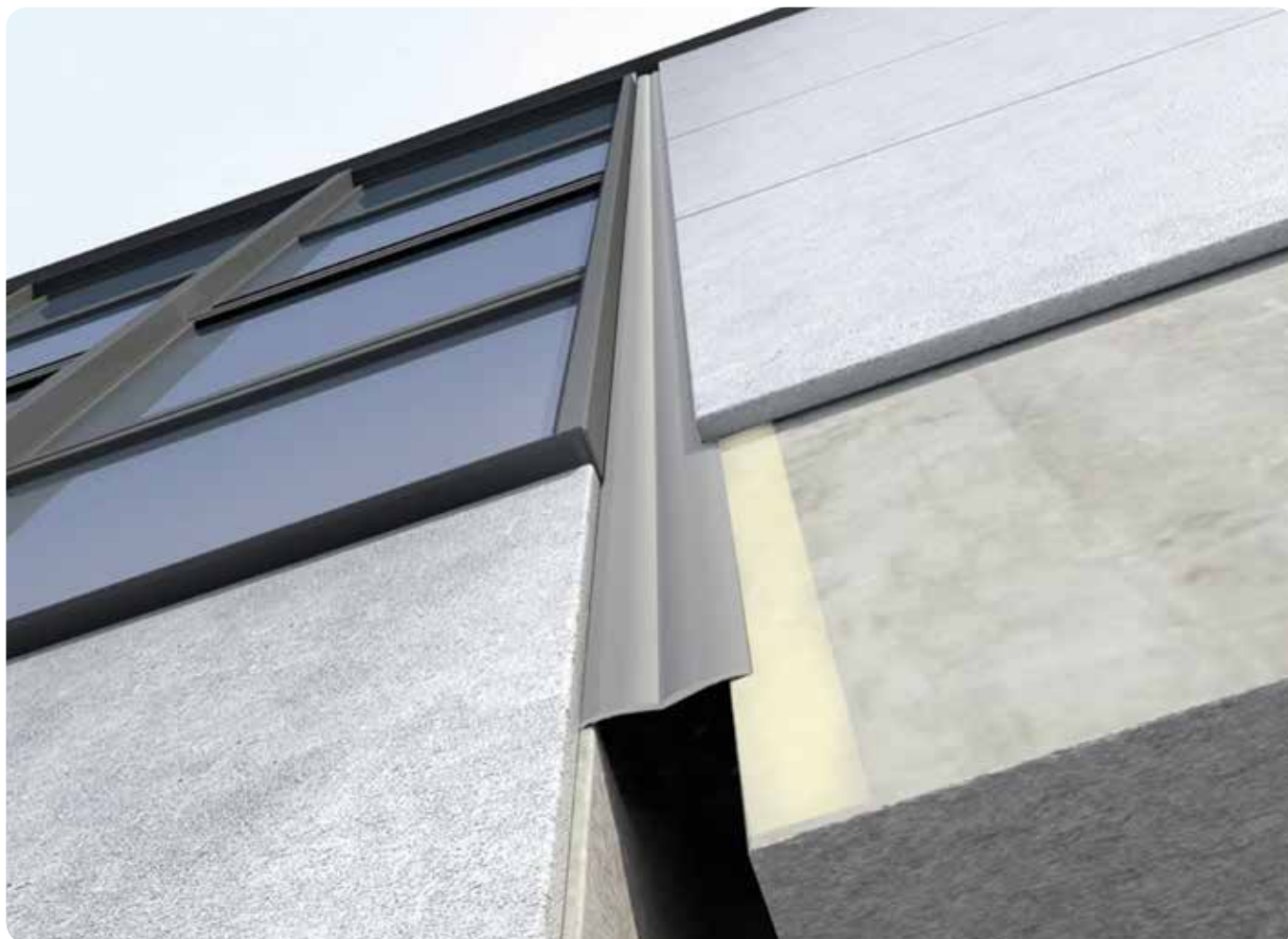
As tile adhesive: Approx. 0.8 - 1 kg/m

#### PACKAGING

DW 9000 Epo–Uni is available in 1 kg and 10 kg in proportion with the predetermined mix weight.

#### SHELF-LIFE-STORAGE

24 months from the production date, if preserved in its original closed packaging, in environments protected by moisture and direct exposure to sun. Storage temperature should be between +5°C and +35°C.



#### TECHNICAL DATA

Base	Bi-component epoxy resin
Color	Grey
Viscosity	1,000,000 mPa.s (Spindle F; rpm 2.5)
The mixing ratio	1:1 in weight
Density	1,75 Kg/lit in 23°C
Pot life	Approximately 60 min in 23°C
Cleaning	in 45 min in 23°C
Minimal solidification temperature	+10°C
Partial solidification	after 48 h in 23°C
Full solidification	after 7 days in +23°C
Resistance to compression	70 N/mm <sup>2</sup> ( DIN EN 196 - 1 )
Flexural strength	> 40 N/mm <sup>2</sup> ( DIN EN 196 - 1 )

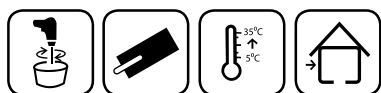


## 1.6 ADHESIVES FOR THERMAL INSULATION PANELS

### DW CONEXION 55



Unit of measurement	Pieces/Pallet	Consumption	Color/Other specifications
25 kg/sack	54 pcs/pallet	3 - 5 kg/m <sup>2</sup>	Grey White



#### DW CONEXION 55

Cement-based adhesive, for the adhesion of thermal insulation EPS panels.

#### CHARACTERISTICS

- High adhesion to mineral substrates and EPS panels
- Very good workability
- Resistant to weather conditions

#### AREA OF USE

DW Conexion 55 is cement- based adhesive for bonding EPS panels in DAST ETICS (external thermal insulation systems). DW Conexion 55 is used to attach EPS insulation panels in new facilities, as well as in existing buildings that will renovate facades with insulating system.

#### APPLICATION PROCEDURE

##### Preparation of the surface

DW Conexion 55 has very good adhesiveness on surfaces such as wall, plaster and cement- based surfaces which must be free of grease, bitumen, dust and other substances that reduce adhesive strength. Prior to application, check adhesiveness in existing mortars and paint coatings. In the case of microbiological contamination with mushroom, moss or algae, the surface of the facade must be cleaned with a metallic brush and then treated with a solution that is anti these microbes. Old plastered walls, strong mortars and paint surfaces should be abraded, then washed with water pressure and left until completely dry. Surfaces of high water suction, such as walls made of airy concrete blocks or silicate blocks should be treated with the primer BETON CONTACT and left to dry for at least 4 hours.

#### APPLICATION

DW Conexion 55 should be poured in the determined quantity to the cold and clean water and should be stirred with an agitator until a homogeneous mixture is created. The ready-to-use mortar should be applied with a trowel along the edges of the panel and a tape of 3 ÷

4 cm wide and approximately 8 cm long should be applied in some parts of the panel. Immediately after that, EPS panel must be fixed to the wall through a few small strokes. As it is known, the applied mortar, when installed, should cover at least 40% of the surface of the panel. In cases of plastered surfaces, it can be applied through a notched trowel, with 10 - 12 mm a notch. Panels must be tightly fixed with one-another, just like a "brick wall". When EPS panels are mounted, after approximately 3 days every type of unevenness in the panels' leveling is eliminated with abrasive paper, and then re-inforced with plastic or mechanic wall anchors. The number of wall anchors should minimally be 4 pieces for m<sup>2</sup>

#### CONSUMPTION

Approximate consumption:

Fixing EPS panels: approx. 4.0 Kg/m<sup>2</sup>

Leveling layer: approx. 3.0 Kg/m<sup>2</sup>

#### PACKAGING

DW CONEXION 55 is supplied in paper sacks of 25 Kg.

#### SHELF-LIFE - STORAGE

12 months after production date, if the product is stored in original packaging and normal environment, protected from direct exposure to sun and frost.



#### TECHNICAL DATA

Form	Powder
Color	Grey/White
Bulk density of dry material	1350 gr/L
Water demand	24-25%
Bulk density of fresh material	1550 gr/L
Lifespan of prepared mortar	4 hours
Application temperature	+5°C to +35°C
Pot life EN 13498	≥ 20 minutes
Correction time	≥ 30 minutes
Adhesion strength	
- After normal condition	≥ 0,5 N/mm <sup>2</sup>

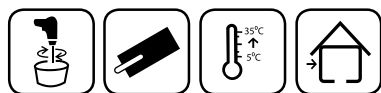


## 1.6 ADHESIVES FOR THERMAL INSULATION PANELS

### DW CONEXION 77



Unit of measurement	Pieces/Pallet	Consumption	Color/Other specifications
25 kg/sack	54 pcs/pallet	3 - 5 kg/m <sup>2</sup>	Grey White



#### DW CONEXION 77

Prepared, grey and white cement-based mortar, composed from Portland Cement with excellent qualities, carbonate stone filler with selected granulometry, synthetic resins and special additives, which improve the workability, adhesion and increase the hydrophobicity of the dry mortar.

#### AREA OF USE

DW CONEXION 77 serves for the adhesion of all types of panels that are generally used for the realization of thermal insulation systems, such as: styrofoam, graphite, mineral fibers panels in brick walls, concrete or cement-based mortar.

#### APPLICATION PROCEDURE

##### Surface preparation

The supports must be compact, seasoned and steady, without cracks, oils, paints or detachable parts. Check to see if the bricks are securely attached and do not have parts that can detach. If there are such parts, remove them repair surface with mortar. Walls that are coated with grout must be scraped in order to verify if the surface under it was painted with old and badly attached paints, or if there are detachable parts. Powdered surfaces should be treated with Tecnofix Liquid primer. Superficial cracks can be caulked with DW Conexion 77, while deep structural cracks should be treated in a way to eliminate the causes and not repeat them. If the surface is not flat or straight, it should be flattened or made straight using Tecnofix.

#### APPLICATION

In order to achieve a steady installation, before you start to adhere panels, it is necessary to fix metallic profiles as leveling fasteners. For installations in irregular surfaces, such as unplastered brick walls, the adhesive is applied with a trowel, by putting it as a tape at the edges of the panels' sideways contours, and some drops in its center (or forming an X in the center of the panel) in a certain thickness so as to compensate unevenness. For applications in flat surfaces, it is recommended to spread the adhesive in the entire surface of the panel through a notched trowel (from 8 up to 10 mm). Caution must be paid to the surface covered with adhesive, which should be at least 40 % of the total panel surface. Panels should be installed in horizontal direction, starting from down and continuing up. Caution to the panels' joints; do not leave empty spaces or unevenness. Then, proceed with the mechanic fixation of wall anchors (for usual panels 50 x 100 cm, it is recommended to pour 8 adhesive drops for meter square).



#### TECHNICAL DATA

Form	Powder
Color	Grey/White
Granulometriy	≤ 0.7 mm
Water for mixing	26% (± 1%)
pH of mixture	>12
Pot life	4 hours
Application temperature	5°C to 35°C
Consumption for mm thickness	1.4 kg/m <sup>2</sup>
Storage	12 months, in original packaging and dry place

#### FINAL DATA

Resistance to moisture	Good
Deformation	Non deformable
Adhesion strength to concrete	≥ 2,0 N/mm <sup>2</sup>
Adhesion strength after heat	≥ 1,0 N/mm <sup>2</sup>
Adhesion strength after water immersion	≥ 1,0 N/mm <sup>2</sup>
Compression resistance	≥ 9,0 N/mm <sup>2</sup>
Flexibility	≤ 2.5 mm
Flexural resistance	≥ 4,0 N/mm <sup>2</sup>

The above data are applicable in temperatures from (23 ±2°C) and in (50 ±5) % relative humidity. Lower temperatures prolong the time of maturity and solidifying.

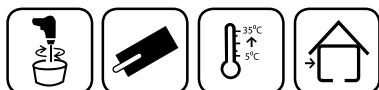


## 1.6 ADHESIVES FOR THERMAL INSULATION PANELS

### DW CONEXION 99



Unit of measurement	Pieces/Pallet	Consumption	Color/Other specifications
25 kg/sack	54 pcs/pallet	3 - 5 kg/m <sup>2</sup>	Grey White



#### DW CONEXION 99

Prepared, grey and white cement-based mortar, composed from Portland Cement with excellent qualities, carbonate stone filler with selected granulometry, synthetic resins and special additives, which improve the workability, adhesion, flexibility and increase the hydrophobicity of the dry mortar.

#### AREA OF USE

DW CONEXION 99 serves for the adhesion and then for the leveling of all types of panels that are usually used for the realization of thermal insulation systems, such as: styrofoam, polyurethane, wool stone, wool glass, graphite, mineral fibers in brick walls, concrete or cement-based mortar. DW CONEXION 99 is a pre-prepared, gray or white, cement-based, Portland material of excellent quality, with carbonate stone sand of selected granulometry, synthetic resins and special additives, which improve the workability, adhesiveness on rough surfaces and increase the hydrophobicity of the strengthened mortar against rains. The leveling of the panels should be made in two layers, combining those with glass-fibers mesh, which is resistant to alkali.

#### APPLICATION PROCEDURE

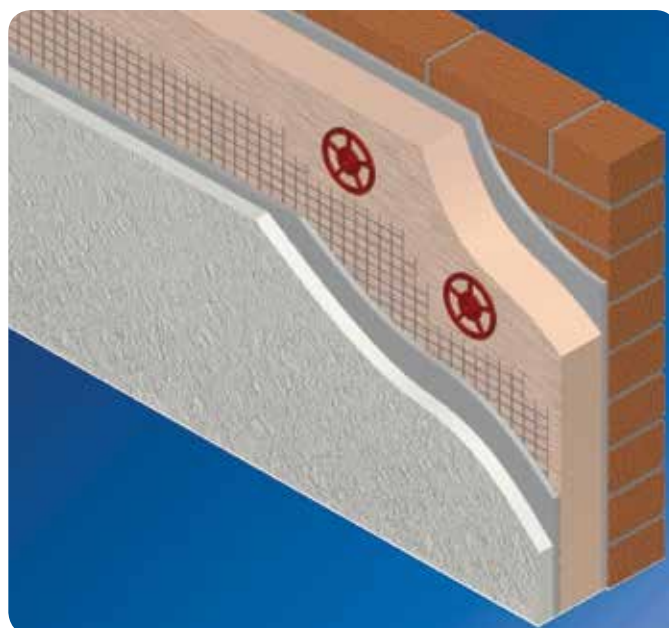
##### Surface preparation

The supports must be compact, seasoned and steady, without cracks, oils, paints or detachable parts. Check to see if the bricks are securely attached and do not have parts that can detach. If there are such parts, remove them and repair surface with mortar. Walls that are coated with grout must be scraped in order to verify if the surface under it was painted with old and badly attached paints, or if there are detachable parts. Powdered surfaces should be treated with PRIMER TECNOFIX. Superficial cracks can be caulked with DW Conexion 99, while deep structural cracks should be treated in a way to eliminate the causes and make them not to repeat.

#### APPLICATION

In order to achieve a steady installation, before you start to adhere panels, it is necessary to fix metallic profiles as leveling fasteners. For

installations in irregular surfaces, such as unplastered brick walls, the adhesive is applied with a trowel, by putting it as a tape at the edges of the panels' sideways contours, and some drops in its center (or forming an X in the center of the panel) in a certain thickness so as to compensate unevenness. For applications in flat surfaces, it is recommended to spread the adhesive in the entire surface of the panel through a notched trowel (from 8 up to 10 mm). Caution must be paid to the surface covered with adhesive, which should be at least 40 % of the total panel surface. Panels should be installed in horizontal direction, starting from down and continuing up. Caution to the panels' joints; do not leave empty spaces or unevenness. Then, proceed with the mechanic fixation of wall anchors (for usual panels 50 x 100 cm, it is recommended to pour 8 adhesive drops for meter square).





#### TECHNICAL DATA

Form	Powder
Color	Grey/White
Granulometriy	≤ 0.7 mm

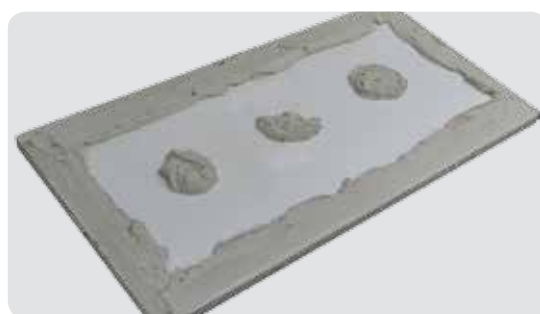
#### TECHNICAL FEATURES

Water for mixing	26% (± 1%)
pH of mixture	>12
Pot life	4 hours
Application temperature	5°C to 35°C
Consumption for mm thickness	1.4 kg/m <sup>2</sup>

#### FINAL DATA

Resistance to moisture	Very good
Deformation	Non deformable
Adhesion strength to concrete	≥ 2 N/mm <sup>2</sup>
Adhesion strength after heat	≥ 1,0 N/mm <sup>2</sup>
Adhesion strength after water immersion	≥ 1,0 N/mm <sup>2</sup>
Compression resistance	≥ 12 N/mm <sup>2</sup>
Flexibility	≥ 7 N/mm <sup>2</sup>
Flexural resistance	≤ 2.5 mm

The above data are applicable in temperatures from (23 ±2°C) and in (50 ±5) % relative humidity. Lower temperatures prolong the time of maturity and solidifying.

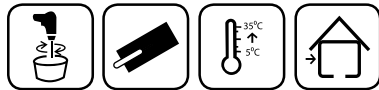


## 1.6 ADHESIVES FOR THERMAL INSULATION PANELS

### DW CONEXION PLUS



Unit of measurement	Pieces/Pallet	Consumption	Color/Other specifications
25 kg/sack	54 pcs/pallet	3 - 5 kg/m <sup>2</sup>	White



#### DW CONEXION PLUS

Serves to fix the thermal insulation panels EPS, mineral panels, and to apply a thin layer reinforced with mesh for the thermal insulation of buildings.

#### CHARACTERISTICS

- No need to apply a primer before applying the product
- Lower consumption
- High adhesion
- Allows vapor diffusion
- Flexible
- Resistant to cracking
- Resistant to weather conditions

#### AREA OF USE

Conexion Plus is a cement-based adhesive for bonding EPS panels and mineral panels in DAST ETICS (external thermal insulation systems). DW Conexion PLUS is used to bond thermal insulation panels in new facilities, as well as in existing facilities which will renew their facades with thermal insulating system.

#### APPLICATION PROCEDURE

##### Surface preparation

DW Conexion PLUS has very good adhesiveness in surfaces such as wall, plaster and cement-based surfaces; surfaces should be free from grease, bitumen, dust and other substances that lower adhesive strength. Adhesiveness in existing mortars and paint coatings should be checked prior to start the application. In case of microbiological contamination with mushroom, moss and algae, the surface of the façade should be cleaned with metal brush and then treated with a solution against these microbes. Old plastered walls, hard mortars and paint surfaces should be abraded, then washed with water pressure and left until they get completely dry.

#### APPLICATION

DW CONEXION PLUS should be poured in the determine quantity of cold and clean water, and should be stirred through an agitator, until a homogeneous mixture is formed. The ready-to-use mortar should be applied with a trowel throughout the edges of the panel in a strip of 3 ÷ 4 cm wide and approximately 8 cm long, in some parts of the panel. Immediately after that, the EPS panel should be fixed in the wall through some small strikes. The applied mortar, as known, when mounted, should minimally cover 40% of the panel surface. In cases of plastered surfaces, it can be applied by a notched trowel, with 10 - 12 mm a notch. Panels should be tightly fixed with one-another, just like a "brick wall". When EPS panels are mounted, after approximately three days, every type of unevenness in the panels should be eliminated using an abrasive paper, and then it should be reinforced with plastic or mechanic wall anchors. The number of wall anchors should minimally be 4 pieces for m<sup>2</sup>.

#### CONSUMPTION

Approximate consumption:

Fixing EPS panels: approx. 3.5 kg/m<sup>2</sup>

Leveling layer: approximately 3.0 kg/m<sup>2</sup>

#### PACKAGING

CONEXION PLUS is supplied in paper sacks of 25 Kg.

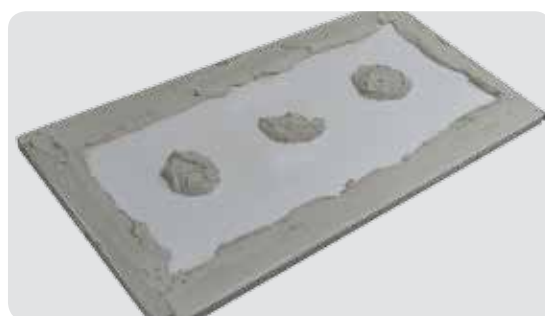
#### SHELF-LIFE - STORAGE

12 months after production date, if the product is stored in original packaging and normal environment, protected from direct exposure to sun and frost.



#### TECHNICAL DATA

Form	Powder
Color	White
Bulk density of dry material	1350 gr/L
Water demand	24-25%
Bulk density of fresh material	1550 gr/L
Lifespan of prepared mortar	4 hours
Application temperature	+5°C to +35°C
Pot life EN 1346	≥ 20 minutes
Correction time	≥ 30 minutes
Adhesive strength	≥ 0,5 N/mm <sup>2</sup>
- After normal condition	≥ 1.0 N/mm <sup>2</sup>

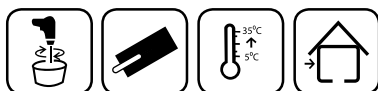


## 1.6 ADHESIVES FOR THERMAL INSULATION PANELS

### DW CONEXION FOAM D33



Unit of measurement	Pieces/Pallet	Consumption	Color/Other specifications
750 ml	12 pcs/box	60-70 gr/m <sup>2</sup>	Yellow



#### DW Conexion foam D 33

Polyurethane-based, mono-component, with low expansion adhesive for thermal insulation panels. It is suitable to seal thermal insulation materials with the help of a pistol for PU foam. The foam is hardened in reaction with air humidity.

#### CHARACTERISTICS

D33 is a polyurethane-based foam for the adhesion of thermal insulation panels. It has low expansion, it is mono-component and has good adhesiveness on Styrofoam, styrodur and mineral wool. However, it does not adhere on polyethylene, silicone and PTFE. Advantages of using a polyurethane-based D33 adhesive for thermal insulation panels are:

- Easy to use
- Economical consumption of material
- Less expensive
- Solidifies quickly and is resistant to moisture and low temperatures
- It is environmentally friendly because it does not contain CFC
- It is in compliance with ETAG 004 standard

#### METHOD OF APPLICATION

##### 1. Preparation of the surface

Surfaces must be stable, flat and clean. Before applying the polyurethane adhesive, the surface should be watered. Watering is important because it improves adhesion and accelerates the solidification of polyurethane adhesive. Apply polyurethane adhesive on the edges of the panel and then on its surface in the form of letter W. After applying polyurethane adhesive on the panel, you need to wait a minute before you put it on the wall. The leveling of the panels can be performed 10 to 15 minutes after fixation.

##### 2. Application

Before you start using it, shake the can and mount it upside-down at the application pistol. Press the trigger of the pistol and let the polyurethane adhesive flow through the pipe. During application hold the pistol in a vertical position.

#### PACKAGING

750 ml aerosol cans

#### SHELF-LIFE STORAGE

12 months (from +10°C to +20°C).

High temperatures shorten shelf- life storage. Tin should be stored in a vertical position.

#### TECHNICAL DATA

Volume	750 ml
Specific gravity	16-18 kg/m <sup>3</sup>
Application temperature	min. +5°C (surfaces) 20-25°
Solidification time	1 - 2 hours
Resistance to temperature	-40°C to +90°C
Water absorption	DIN 53.428 max. 1 vol. %
Compression strength	DIN 53.421 0,04-0,05 MPa
Tensile strength	DIN 53.455 0,07-0,08 MPa
Correction time	≥ 30 minutes
Adhesive strength	≥ 0,5 N/mm <sup>2</sup>
- After normal condition	≥ 1.0 N/mm <sup>2</sup>



## 1.7 ADHESIVES FOR PARQUET

### DW PARQUET F 22



Unit of measurement	Pieces/Pallet	Consumption	Color/Other specifications
5 kg/bucket 15 kg/bucket	60 pcs/pallet 36 pcs/pallet	1-1.5 kg/m <sup>2</sup>	Beige -



#### DW PARQUET F 22

Fast drying adhesive for water-based dispersion wooden floors, free of solvents.

#### CHARACTERISTICS

- DW PARQUET F 22 is a synthetic, fast drying, water emulsion-based and with low water content adhesive
- DW PARQUET F 22 solidifies even in temperatures near freezing. However, installation is recommended to be made at least at +10°C.
- DW PARQUET F 22 has a high adhesiveness, which makes trafficability possible after 24 hours.
- After water evaporation, DW PARQUET F 22 reaches a high level of flexibility and adhesiveness, and is resistant to normal hygrometric movements of wood and to thermal expansion of surface.
- DW PARQUET F 22 is completely resistant to mold and bacteria, thanks to the special layers it contains.

#### APPLICATION PROCEDURE

##### Preparation of the surface

Surface must be completely dry, absorbent, leveled, mechanically stable, and free of dust, loose particles, paint, wax, oil, rust, and traces of gypsum. The moisture content should be lower than the maximum specified by the manufacturers of parquet. Check moisture throughout the thickness of the layer, using a hygrometer. Floating layers on the isolation, facilitated layers and tiles should be equipped with a vapor barrier to prevent moisture condensation.

#### APPLICATION

Mix the adhesive before using it. If you see the formation of a superficial skin, remove it in any case. DW PARQUET F 22 is applied on sur-

faces through a notched trowel, suitable for parquets. Service life of DW PARQUET F 22 product is maximally 30 minutes in normal conditions of temperature and moisture. If you see the creation of a skin during the application of DW PARQUET F 22, the adhesive is removed and re-applied. Environment temperature should be higher than +10°C. Before installation, check if the moisture level in wood and environment are as described by the manufacturer. During the mounting of the parquet exert weight on the parquet so as to ensure a better absorption of the adhesive. During installation of the parquet, leave a space of approximately 1 cm around the perimeter, columns, and every other element exiting at the floor.

#### TECHNICAL DATA

Form	Paste
Color	Beige
Density	1.3 gr/cm <sup>3</sup>
pH	8
Solids	71 %
Viscosity	20,000 mPa.s
Open Time	30 minutes
Application Temperature	+10°C - +35°C
Set to light foot traffic	after 24 hours
Polishing	after 10 days
Adhesion Strength on concrete	> 3 N/mm <sup>2</sup>

**CONSUMPTION****Depending on the type of trowel**

600-800 g/m<sup>2</sup> by using a 4 mm-notch trowel.

800 - 1000 g/m<sup>2</sup> by using a 6 mm-notch trowel.

**PACKAGING**

DW PARQUET F 22 is supplied in buckets of 5 and 15 kg, in beige color.

**SHELF-LIFE-STORAGE**

12 months if stored in a cool environment, in its original and closed packaging.



## 1.7 ADHESIVES FOR PARQUET

### DW PARQUET S 33



Unit of measurement	Pieces/Pallet	Consumption	Color/Other specifications
5 kg/bucket	60 pcs/pallet	1-1.5 kg/m <sup>2</sup>	Beige
15 kg/bucket	36 pcs/pallet		-



#### DW PARQUET S 33

Silylate polymer-based adhesive for wooden parquets, with very low emission of volatile organic compounds, VOCs.

#### CHARACTERISTICS

- DW PARQUET S 33 is a synthetic, ready –to- use adhesive.
- DW PARQUET S 33 solidifies even in near- freezing temperatures. However, its installation is recommended to be made at least in +10°C.
- DW PARQUET S 33 has a high adhesiveness, which makes trafficability possible after 24 hours.
- DW PARQUET S 33 achieves a high level of flexibility and adhesion and is resistant to normal hygrometric movements of wood and thermal expansion of surface.
- DW PARQUET S 33 is completely resistant to mold and bacteria, thanks to the special layers it contains.
- Not classified as dangerous material.

#### APPLICATION PROCEDURE

##### Preparation of the surface

Surface must be completely dry, absorbent, leveled, mechanically stable, and free of dust, loose particles, paint, wax, oil, rust, and traces of gypsum. Humidity content should be lower than the maximum specified by the manufacturer of the parquet. Check humidity throughout the thickness of the layer, using a hygrometer. Floating layers on the isolation or facilitated layers and tiles should be equipped with a vapor barrier to prevent humidity condensation.

#### APPLICATION

Before use, mix the adhesive. If you see the formation of a superficial skin, remove it in any case. DW PARQUET S 33 is applied on surfaces

through a notched trowel, suitable for parquets. Service life of DW PARQUET S 33 product is maximally 30 minutes in normal conditions of temperature and humidity. If you see the creation of a skin during the application of DW PARQUET S 33, the adhesive is removed and re-applied. Environment temperature should be higher than +10°C. Before installation, check if humidity level in wood and environment are as described by the manufacturer. During the mounting of the parquet, exert weight on the parquet so as to ensure a better absorption of the adhesive. During installation of the parquet, leave a space of approximately 1 cm around the perimeter, columns, and every other element present at the floor.

#### TECHNICAL DATA

Form	Paste
Color	Beige
Density	1.3 gr/cm <sup>3</sup>
pH	8
Solids	71 %
Viscosity	20,000 mPa.s
Open Time	30 minutes
Application Temperature	+10°C - +35°C
Set to light foot traffic	after 24 hours
Polishing	after 10 days
Adhesion Strength on concrete	> 3 N/mm <sup>2</sup>

**CONSUMPTION****Depending on the type of trowel**

600-800 g/m<sup>2</sup> by using a 4 mm-notch trowel.

800 - 1000 g/m<sup>2</sup> by using a 6 mm-notch trowel.

**PACKAGING**

DW PARQUET S 33 is supplied in buckets of 5 and 15 kg, in beige color.

**SHELF-LIFE-STORAGE**

12 months if stored in a cool environment, in its original and closed packaging.

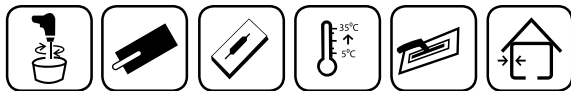


## 1.7 ADHESIVES FOR PARQUET

### DW PARQUET FS 44



Unit of measurement	Pieces/Pallet	Consumption	Color/Other specifications
5 kg/bucket 10 kg/bucket	60 pcs/pallet 36 pcs/pallet	1-1.5 kg/m <sup>2</sup>	Beige -



#### DW PARQUET FS 44

Bi-component, polyurethane-based, with very low emission of volatile organic compounds, VOCs adhesive for all types of parquets.

#### CHARACTERISTICS

- DW PARQUET FS 44 is a bi-component adhesive.
- DW PARQUET FS 44 solidifies even in temperatures near freezing. However, its installation is recommended to be made at least in temperatures +10°C.
- DW PARQUET FS 44 has a high adhesiveness, which makes trafficability possible after 24 hours.
- DW PARQUET FS 44 reaches a high level of flexibility and adhesion and is resistant to normal hygrometric movements of wood and to thermal expansion of surface.
- DW PARQUET FS 44 is completely resistant to mold and bacteria, thanks to the special layers it contains.
- Not classified as dangerous material.

#### APPLICATION PROCEDURE

##### Preparation of the surface

Surface must be completely dry, absorbent, leveled, mechanically stable, and free of dust, loose particles, paint, wax, oil, rust, or traces of gypsum. Humidity content should be lower than the maximum specified by the manufacturer of the parquet. Check humidity throughout the thickness of the layer, using a hygrometer. Floating layers on the isolations or facilitated layers and tiles should be equipped with a vapor barrier to prevent humidity condensation.

#### APPLICATION

Mix the adhesive before using it. If you see the creation of a superficial skin, remove it in any case. DW PARQUET FS 44 is applied on surfaces through a notched trowel, suitable for parquets. Service life of DW PARQUET FS 44 product is maximally 30 minutes in normal conditions of temperature and humidity. If you see the creation of a skin during the application of DW PARQUET FS 44, the adhesive is removed and re-applied. Environment temperature should be higher than +10°C. Before installation, check if humidity level in wood and environment are as described by the manufacturer. During the mounting, exert weight on the parquet so as to ensure a better absorption of the adhesive. During installation of the parquet, leave a space of approximately 1 cm around the perimeter, columns, and every other element present at the floor.

#### TECHNICAL DATA

Form of A component	Paste
Color of A component	Beige
Form of B component	Paste
Color of B component	off-White
Density of A component	1.7 gr/cm <sup>3</sup>
Density of B component	1.3 gr/cm <sup>3</sup>
Viscosity of A component	35,000 mPa.s
Viscosity of B component	10,000 mPa.s
Mixing ratio of A component	90 : 10
Mixing ratio of B component	90 : 10
Viscosity of the mixture	32,000 mPa.s
Density of the mixture	1.6 gr/cm <sup>3</sup>
Pot life of mix	60-70 minutes
Application temperature	+10°C - +35°C
Open time	1 hour
Set to light foot traffic	after 24 hours
Polishing	after 3 days
Adhesion Strength	> 3 N/mm <sup>2</sup>

#### CONSUMPTION

##### Depending on the type of trowel

600-800 g/m<sup>2</sup> by using a 4 mm-notch trowel.

800 - 1000 g/m<sup>2</sup> by using a 6 mm-notch trowel.

#### PACKAGING

DW PARQUET FS 44 is supplied in buckets of 5 and 10 kg, in beige color.

#### SHELF-LIFE-STORAGE

12 months if stored in a cool environment, in its original and closed packaging.

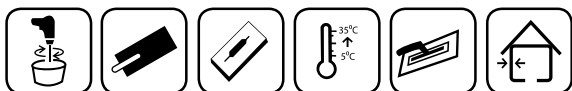


## 1.8 ADHESIVES FOR PVC, LINOLEUM, ETC

### DW TEXTILE ECO 70



Unit of measurement	Pieces/Pallet	Consumption	Color/Other specifications
5 kg/bucket	60 pcs/pallet	1-1.5 kg/m <sup>2</sup>	Beige
15 kg/bucket	36 pcs/pallet		-



#### DW TEXTILE ECO 70

Bi-component, polyurethane-based varnish, with high resistance to consumption, for extremely high-traffic floors.

#### CHARACTERISTICS

- DW Textile ECO 70 is a synthetic, fast drying, water emulsion-based adhesive, low emission of VOC - s.
- DW Textile ECO 70 solidifies even in near freezing temperatures. However, installation is recommended to be made at least in temperatures +10°C.
- DW Textile ECO 70 has a high adhesiveness, which makes trafficability possible after 24 hours in heavy traffic.
- DW Textile ECO 70 reaches a high level of flexibility and adhesiveness.
- DW Textile ECO 70 is completely resistant to mold and bacteria, thanks to the special layers it contains.

#### APPLICATION PROCEDURE

##### Preparation of the surface

Surface must be completely dry, absorbent, leveled, mechanically stable, and free of dust, loose particles, paint, wax, oil, rust, and traces of gypsum. The moisture content should be lower than the maximum specified by the manufacturers of parquet, 2-3% for cement-based floors and 0.5% for anhydrous- based floors. Check moisture throughout the thickness of the layer, by using a hygrometer. Floating layers on the isolations, facilitated layers and tiles should be equipped with a vapor barrier to prevent moisture condensation.

#### APPLICATION

Mix the adhesive before using it. If you see the formation of a superficial skin, remove it in any case. DW Textile ECO 70 is applied on surfaces through a notched trowel, suitable for parquets. Service life of DW Textile ECO 70 product is maximally 30 minutes in normal weather conditions and humidity. If you see the creation of a skin during the application of DW Textile ECO 70, the adhesive is removed and re-applied. Environment temperature should be higher than +10°C.

#### CONSUMPTION

##### Depending on the type of trowel

- 600-800 g/m<sup>2</sup> by using a 4 mm-notch trowel.
- 800 - 1000 g/m<sup>2</sup> by using a 6 mm-notch trowel.



#### TECHNICAL DATA

Form	Paste
Color	Beige
Density	1.35 Kg/L
Service life	45 minutes
The solid residue	75%

#### PACKAGING

DW Textile ECO 70 is supplied in buckets of 5 and 15 kg, in beige color.

#### SHELF-LIFE-STORAGE

12 months if stored in a cool environment, in its original and closed packaging.



## 1.8 ADHESIVES FOR PVC, LINOLEUM, ETC

### DW PVC ECO 110



Unit of measurement	Pieces/Pallet	Consumption	Color/Other specifications
5 kg/bucket 15 kg/bucket	60 pcs/pallet 36 pcs/pallet	1-1.5 kg/m <sup>2</sup>	Beige -



#### DW PVC ECO 110

Fast drying, water-based dispersion adhesive for the adhesion of PVC-s, solvents-free.

#### CHARACTERISTICS

- DW PVC ECO 110 is a synthetic, fast drying, water emulsion-based adhesive, free of VOC-s.
- DW PVC ECO 110 has a high adhesiveness, even from the early stages of application time.
- DW PVC ECO 110 reaches a high level of flexibility and adhesiveness.
- DW PVC ECO 110 ensures excellent adhesion in any type of support.

#### APPLICATION PROCEDURE

##### Preparation of the surface

Surface must be completely dry, absorbent, leveled, mechanically stable, and free of dust, loose particles, paint, wax, oil, rust, and traces of gypsum. Moisture content should be lower than the maximum specified by the manufacturers of parquet, 2-3% for cement-based floors and 0.5% for anhydrous-based floors. Check moisture throughout the thickness of the layer, by using a hygrometer. Floating layers on the isolations, facilitated layers and tiles should be equipped with a vapor barrier to prevent moisture condensation.

#### APPLICATION

Mix the adhesive before using it. If you see the formation of a superficial skin, remove it in any case. DW PVC ECO 110 is applied on surfaces through a notched trowel, suitable for parquets. Service life of DW PVC ECO 110 product is maximally 30 minutes in normal weather conditions and moisture level. If you see the creation of a skin during the application of DW PVC ECO 110, the adhesive is removed and re-applied.

Environment temperature should be higher than +10°C.

#### TECHNICAL DATA

Form	Paste
Color	Beige
Density	1.30 Kg/L
Working life	30 minutes
The solid residue	65%

#### CONSUMPTION

##### Depending on the type of trowel:

600-800 g / m<sup>2</sup> by using a 4 mm-notch trowel.  
800 - 1000 g / m<sup>2</sup> by using a 6 mm-notch trowel.

#### PACKAGING

DW PVC ECO 110 is supplied in buckets of 5 and 15 kg, in beige color.

#### SHELF-LIFE-STORAGE

12 months if stored in a cool environment, in its original and closed packaging.



## 1.8 ADHESIVES FOR PVC, LINOLEUM, ETC

### DW SYNTHETIC ECO 220



Unit of measurement	Pieces/Pallet	Consumption	Color/Other specifications
5 kg/bucket 15 kg/bucket	60 pcs/pallet 36 pcs/pallet	1-1.5 kg/m <sup>2</sup>	Beige -



#### DW SYNTHETIC ECO 220

Polyurethane- based adhesive, for synthetic grass carpets.

#### CHARACTERISTICS

- DW SYNTHETIC ECO 220 is polyurethane- based, synthetic adhesive.
- DW SYNTHETIC ECO 220 is solvent-free.
- DW SYNTHETIC ECO 220 reaches a high level of flexibility and adhesiveness.
- DW SYNTHETIC ECO 220 ensures excellent adhesion in any type of support.
- DW SYNTHETIC ECO 220 ensures good workability even in low temperatures.

#### APPLICATION PROCEDURE

##### Preparation of the surface

The surface must be pre-prepared in accordance with technical requirements of sports fields' standards.

#### APPLICATION

Mix the adhesive before using it. If you see the formation of a superficial skin, remove it in any case. DW SYNTHETIC ECO 220 is applied on surfaces through a notched trowel, suitable for parquets. Working time of DW SYNTHETIC ECO 220 product is maximally 30 minutes in normal weather conditions and moisture level. If you see the creation of a skin during the application of DW SYNTHETIC ECO 220, the adhesive is removed and re-applied.

#### TECHNICAL DATA

Form	Paste
Color	Beige
Density	1.30 Kg/L
Working time	30 minutes
The solid residue	100%

#### CONSUMPTION

##### Depending on the type of trowel:

- 600-800 g/m<sup>2</sup> by using a 4 mm-notch trowel.
- 800 - 1000 g/m<sup>2</sup> by using a 6 mm-notch trowel.

#### PACKAGING

DW SYNTHETIC ECO 220 is supplied in buckets of 5 and 15 kg, in beige color.

#### SHELF-LIFE-STORAGE

12 months if stored in a cool environment, in its original and unopened packaging.



## 1.8 ADHESIVES FOR PVC, LINOLEUM, ETC

### DW VINIL ECO 330



Unit of measurement	Pieces/Pallet	Consumption	Color/Other specifications
5 kg/bucket 15 kg/bucket	60 pcs/pallet 36 pcs/pallet	1-1.5 kg/m <sup>2</sup>	Beige -



#### DW VINIL ECO 330

Adhesive for carpets mounting, with water-based dispersion and free of solvents.

#### CHARACTERISTICS

- DW VINIL ECO 330 is a synthetic, fast drying, with water-based emulsion, and free of VOC-s.
- DW VINIL ECO 330 ensures a high adhesion even in the early stages from the time of application.
- DW VINIL ECO 330 reaches a high level of flexibility and adhesiveness.
- DW VINIL ECO 330 ensures high adhesiveness in any type of support.

#### APPLICATION PROCEDURE

Preparation of the surface

Surface must be completely dry, absorbent, leveled, mechanically stable, and free of dust, loose particles, paint, wax, oil, rust, and traces of gypsum. The moisture content should be lower than the maximum specified by the manufacturers of parquet, 2 - 3% for cement-based floors and 0.5% for anhydrous-based floors. Check moisture throughout the thickness of the layer, using a hygrometer. Floating layers on the isolation, facilitated layers and tiles should be equipped with a vapor barrier to prevent moisture condensation.

#### APPLICATION

Mix the adhesive before using it. If you see the formation of a superficial skin, remove it in any case. DW VINIL ECO 330 is applied on surfaces through a notched trowel, suitable for parquets. Working time of DW VINIL ECO 330 product is maximally 30 minutes in normal temperature and moisture conditions. If you see the creation of a skin during the application of DW VINIL ECO 330, the adhesive is removed and re-applied. Environment temperature should be higher than +10°C.

#### TECHNICAL DATA

Form	Paste
Color	Beige
Density	1.30 Kg/L
Working time	30 minutes
The solid residue	65%

#### CONSUMPTION

Depending on the type of used trowel:  
600-800 g/m<sup>2</sup> by using a 4 mm-notch trowel.  
800 - 1000 g/m<sup>2</sup> by using a 6 mm-notch trowel.

#### PACKAGING

DW VINIL ECO 330 is supplied in buckets of 5 and 15 kg, in beige color.

#### SHELF-LIFE-STORAGE

12 months if stored in a dry environment, in its original and unopened packaging.



## 1.8 ADHESIVES FOR PVC, LINOLEUM, ETC

### DW LINOLEUM ECO 410



Unit of measurement	Pieces/Pallet	Consumption	Color/Other specifications
5 kg/bucket	60 pcs/pallet	1-1.5 kg/m <sup>2</sup>	Beige
15 kg/bucket	36 pcs/pallet		-



#### DW LINOLEUM ECO 410

Adhesive for the mounting of linoleum flooring, with water-based dispersion and free of solvents.

#### CHARACTERISTICS

- DW LINOLEUM ECO 410 is a synthetic, water-based emulsion adhesive, and free of VOC-s.
- DW LINOLEUM ECO 410 ensures a high adhesion even in the early stages from the time of application.
- DW LINOLEUM ECO 410 reaches a high level of flexibility and adhesiveness.
- DW LINOLEUM ECO 410 ensures high adhesiveness in any type of support.

#### APPLICATION PROCEDURE

##### Preparation of the surface

Surface must be completely dry, absorbent, leveled, mechanically stable, and free of dust, loose particles, paint, wax, oil, rust, and traces of gypsum. The moisture content should be lower than the maximum specified by the manufacturers of parquet, 2 - 3% for cement-based floors and 0.5% for anhydrous-based floors. Check moisture throughout the thickness of the layer, using a hydrometer. Floating layers on the insulations, facilitated layers and tiles should be equipped with a vapor barrier to prevent moisture condensation.

#### APPLICATION

Mix the adhesive before using it. If you see the formation of a superficial skin, remove it in any case. DW LINOLEUM ECO 410 is applied on surfaces through a notched trowel, suitable for parquets. Working time of DW LINOLEUM ECO 410 product is maximally 30 minutes in normal temperature and moisture conditions. If you see the creation of a skin during the application of DW LINOLEUM ECO 410, the adhesive is removed and re-applied. Environment temperature should be higher than +10°C.

#### TECHNICAL DATA

Form	Paste
Color	Beige
Density	1.30 Kg/L
Working time	30 minutes
The solid residue	65%

#### CONSUMPTION

Depending on the type of used trowel:

600-800 g/m<sup>2</sup> by using a 4 mm-notch trowel.

800 - 1000 g/m<sup>2</sup> by using a 6 mm-notch trowel.

#### PACKAGING

DW LINOLEUM ECO 410 is supplied in buckets of 5 and 15 kg, in beige color.

#### SHELF-LIFE-STORAGE

12 months if stored in a dry environment, in its original and unopened packaging.



## 1.8 ADHESIVES FOR PVC, LINOLEUM, ETC

### DW RUBBER ECO 530



Unit of measurement	Pieces/Pallet	Consumption	Color/Other specifications
5 kg/bucket	60 pcs/pallet	1-1.5 kg/m <sup>2</sup>	White
15 kg/bucket	36 pcs/pallet		-



#### DW RUBBER ECO 530

Adhesive for the mounting of rubber elements, with water-based dispersion and free of solvents.

#### CHARACTERISTICS

- DW RUBBER ECO 530 is a water-based emulsion adhesive, free of VOC-s.
- DW RUBBER ECO 530 ensures a high adhesion even in non-porous surfaces.
- DW RUBBER ECO 530 reaches a high level of flexibility and adhesiveness.
- DW RUBBER ECO 530 is used for the adhesion of polystyrene panels on walls and ceilings.

#### APPLICATION PROCEDURE

##### Preparation of the surface

Surface must be completely dry, absorbent, leveled, mechanically stable, and free of dust, loose particles, paint, wax, oil, rust, and traces of gypsum. The moisture content should be lower than the maximum specified by the manufacturers of parquet, 2 - 3% for cement-based floors and 0.5% for anhydrous-based floors. Check moisture throughout the thickness of the layer, using a hydrometer. Floating layers on the insulations, facilitated layers and tiles should be equipped with a vapor barrier to prevent moisture condensation.

#### APPLICATION

Mix the adhesive before using it. If you see the formation of a superficial skin, remove it in any case. DW RUBBER ECO 530 is applied on surfaces through a notched trowel, suitable for parquets. Working time of DW RUBBER ECO 530 product is maximally 30 minutes in normal temperature and moisture conditions. If you see the creation of a skin during the application of DW RUBBER ECO 530, the adhesive is removed and re-applied. Environment temperature should be higher than +10°C.

#### TECHNICAL DATA

Form	Paste
Color	White
Density	1.10 Kg/L
Working time	60 minutes
The solid residue	55%

#### CONSUMPTION

Depending on the type of used trowel:  
200 - 400 g/m<sup>2</sup>

#### PACKAGING

DW RUBBER ECO 530 is supplied in buckets of 5 and 15 kg, in white color.

#### SHELF-LIFE-STORAGE

12 months if stored in a dry environment, in its original and unopened packaging.

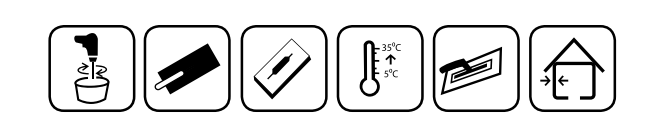


# 1.8 ADHESIVES FOR PVC, LINOLEUM, ETC

PVC D 887



Unit of measurement	Pieces/Pallet	Color
500 ml	12 PCS / box	Beige



### PVC D887

Strong adhesive for PVC plastic pipes.

#### CHARACTERISTICS

Strong adhesive for PVC plastic pipes, for water supply and sewage pipes. Resistant to temperature changes, cold and hot water, vibrations and time. The stable and ideal density of PVC adhesive enables the filling of the pipes' gaps that get created during the installation of equipments, thus ensuring their unbreakable attachment. Attached to the cap, it has a special spherical paintbrush, which does not peel.

#### APPLICATIONS

PVC D 887 adhesive is suitable to bond water supply pipes, sewage pipes and pool pipes with a diameter up to 400 mm and with a resistance up to a pressure of 16 Atm. It is possible to bond PVC pipes side to side.

#### APPLICATION PROCEDURE

##### Preparation of the surface

Clean the sides of the pipes that are going to be coated with adhesive, from dust and oils with a clean cloth. For a better adhesion, it is recommended to clean the surface beforehand.

#### APPLICATION

Spread a uniform adhesive layer on both surfaces without delay (the maximum waiting time is 2 minutes) and unite the parts that are going to be bonded. It is important for the parts of the pipes to stay stable for at least for 15 minutes. The final function- test under pressure should be made after the 24 hours. Close the packaging very well after usage.



#### TECHNICAL DATA

Form	Viscous fluid for constant flow
Color	Beige
Specific weight	1,05±0,05 gr/ml
Application temperature	from +8°C to +35°C
Resistance under pressure	Up to 16 atm

#### CONSUMPTION

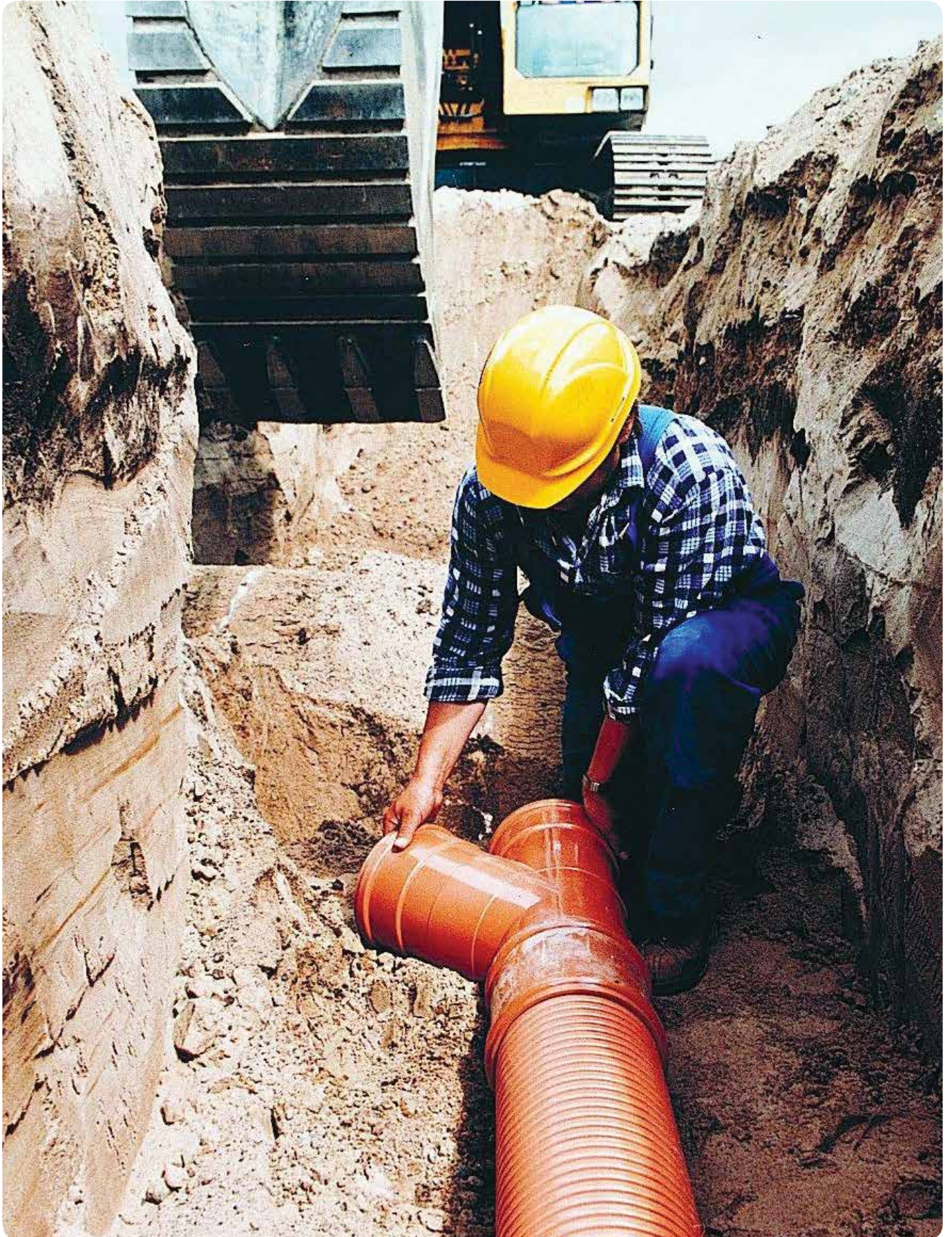
250 ml/m<sup>2</sup> layer.

#### PACKAGING

Carton boxes with 12 pieces of 500 ml.

#### SHELF-LIFE-STORAGE

Stored in well closed packaging, dry and shady places, protected from any source of heat, for at least 18 months from the manufacture date.





## **02. TILE GROUT AND PRODUCTS FOR JOINT TREATMENT**

## 2.1 NANOTECHNOLOGY TILE GROUT 0-5 mm

### NANOCOLOR



Unit of measurement	Pieces/Pallet	Consumption
5 kg/bag 2 kg/bag	4 PCS / box 60 PCS / pallet	0.2-1kg/m <sup>2</sup>



#### NANOCOLOR

Stucco for filling cement-based joints, with selected granulometry and with a high resistance to water; it serves for the filling of 0 - 5 mm joints.

#### TECHNICAL FEATURES

- It is a powder, cement-based material, with natural stone powder of selected granulometry, synthetic resins, hydrophobic additives and coloring pigments.
- Easily cleaned.
- Its final result is a smooth surface
- Waterproof
- High resistance against bases (alkali) and detergents.
- Resistant to corrosion.
- Resistant to UV radiation.
- Prevents the process of fluorescence.

According to EN 13888 classification, it belongs to CG2-WA category.

#### AREA OF APPLICATION

Nanocolor 0 - 5 mm is used for joints stucco in porous ceramic, monocotto, bicotto, porcelain and natural stone tiles with a 0 - 5 mm space. It is used to stucco floors, outdoor coatings, where a high impermeability, elasticity and mechanical strength are required; for surfaces with vibrations, for surfaces with swelling and shrinkage (terraces, under-floor heating, pools, fountains, etc.). Nanocolor stucco should be reinforced with 500 gr additive diluted with 700 - 1000 ml water for one Nanocolor bag of 5 Kg.

#### METHOD OF PREPARATION

Mix 5 kg Nanocolor with 1- 1.5 l of clean water with a low-revolution electric agitator. Stir them until you get a homogenous mixture. Following that, the homogeneous mixture is left to settle for 10 minutes. Before its application, it is recommended to stir the solution again. Prior to reinforcing Nanocolor with DW 17 additive, dilute 500gr DW 17 in a container with 700 - 1000 ml. water, and then we slowly pour the Nanocolor powder, which we mix in the method previously mentioned.

#### METHOD OF APPLICATION

Nanocolor 0-5 mm

Spaces between tiles are easily filled using a rubber screed. Removal of the remaining material should be made with a wet sponge in the moment when Nanocolor has reached the required stability and consistency (this consistency is achieved for about 20 minutes after the application of Nanocolor). The final cleaning of the tiles is made with a dry cloth. The final cleaning can be made even the following day, when the material has solidified; in this case, use an appropriate cleaning cloth.

#### TECHNICAL DATA (IN 23°C AND 50% U.R)

Form	Powder
Color	Look at the colors table
Shelf-life storage	24 months in original packaging and dry environment
Combustibility	Incombustible
Mixing ratio	1.5 - 1.7 L water for 5 Kg Nanocolor
Consistency of mix	Fluid and fluent mixture
Mix density	2 gr/cm <sup>3</sup>
pH of the mixture	12
Working life	2 hours



#### FINAL DATA

Resistance to moisture	high
Resistance to liquids and greases	good
Resistance to acids	not good
Resistance to compression	$> 28 \text{ N/mm}^2$
Resistance to flexion	$> 10 \text{ N/mm}^2$
Absorption (water absorption) after 4 hours according to (EN 13888)	$< 2 \text{ g/m}^2$
Trafficable	after 24 hours
Filling of joints in walls	after 8 up to 12 hours
Filling of floor joints	after 24 up to 36 hours
Joints cleaning	after 10-20 minutes



## 2.2 TILE GROUT 0 - 8 mm

### FUGACOLOR



Unit of measurement	Pieces/Box	Consumption
5 kg/bag	4 pcs/box	0.2-1.2 kg/m <sup>2</sup>
2 kg/bag	10 pcs/box	0.2-1.2 kg/m <sup>2</sup>



#### FUGACOLOR

Stucco for filling cement-based joints, with selected granulometry and with a high resistance against water; it serves for the filling of 0 - 8 mm joints.

#### TECHNICAL FEATURES

- It is a powder, cement-based material, with natural stone powder of selected granulometry, synthetic resins, hydrophobic additives and coloring pigments.
- Excellent workability and distribution.
- Easily cleaned.
- Its final result is a smooth surface
- Waterproof
- High resistance against bases (alkali) and detergents.
- Resistant to corrosion.
- Resistant to UV radiation.
- Prevents the process of fluorescence.

According to EN 13888 classification, it belongs to CG2 category.

#### AREA OF APPLICATION

Fugacolor 0 - 8 mm is used for joints stucco between porous ceramic, monocotto, bicotto, porcelain and natural stone tiles with a 0 - 8 mm space. It is used to stucco floors, outdoor coatings, where a high impermeability, elasticity and mechanical strength are required; for surfaces with vibrations, for surfaces with swelling and shrinkage (terraces, under-floor heating, pools, fountains, etc.). Fugacolor stucco should be reinforced with 500 gr additive DW 17 diluted with 700 - 1000 ml water for one Fugacolor bag of 5 Kg.

#### METHOD OF PREPARATION

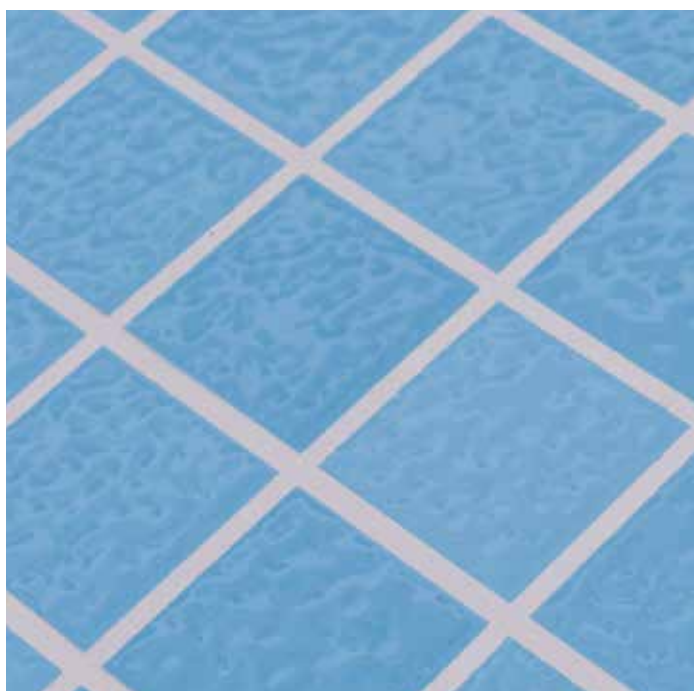
Mix 5 kg Fugacolor with 1- 1.5 l of clean water with a low-revolution electric agitator. Stir them until you get a homogenous mixture. Following that, the homogeneous mixture is left to settle for 10 minutes. Before its application, it is recommended to stir the solution again. Prior to reinforcing Fugacolor with DW 17 additive, we should dilute 500gr DW 17 in a container with 700 - 1000 ml water, and then slowly pour the Fugacolor powder, which we mix in the method previously mentioned.

#### METHOD OF APPLICATION

Spaces between tiles are easily filled using a rubber screed. Removal of the remaining material should be made with a wet sponge in the moment when Fugacolor has reached the required stability and consistency (this consistency is achieved for about 20 minutes after the application of Fugacolor). The final tile cleaning is made with a dry cloth. The final cleaning can be made even the following day, when the material has solidified; in this case, use an appropriate cleaning cloth.

#### TECHNICAL DATA (IN 23°C AND 50% U.R)

Form	Powder
Color	Look at the colors table
Shelf-life storage	24 months in original packaging and dry environment
Combustibility	Incombustible
Mixing ratio	1 - 1.5 L water for 5 Kg Fugacolor
Consistency of mix	Fluid and fluent mixture
Mix density	2 gr/cm <sup>3</sup>
pH of the mixture	12
Pot life	2 hours



#### FINAL DATA

Resistance to moisture	high
Resistance to solutions and fats	good
Resistance to acids	not good
Resistance to compression	>25 N/mm <sup>2</sup>
Resistance to flexion	>8 N/mm <sup>2</sup>
Absorption (water absorption) after 4 hours according to (EN 13888)	< 2g/m <sup>2</sup>

#### PACKAGING

Fuga Color is supplied in 2 Kg and 5 Kg bags.

#### TABLE OF COLORS

White 01	
Black 02	
Pearl Gray 03	
Light Green 03	
Gray 04	
Light Gray 05	
Light Brown 06	
Reddish 07	
Brown 08	
Bahama Beige 09	
Cement Gray 10	
Caramel 12	
Cotto 14	
Manhatan Gray 15	
Light Ocher 16	
Red 17	
Krokus 19	
Maroon 20	
Tropikal Sea 23	
Mykonos Blu 30	
Ceramics 31	
Cypress 32	
Yellow 33	
Peppermint 34	
Anemone 35	
Purple 36	
Anthracite 37	
Malva 39	

## 2.3 TWO COMPONENT TILE GROUT

### FUGAFLEX



Unit of measurement	Pieces/Pallet	Consumption
2 kg/bucket	120 pcs/pallet	0.2-1 kg/m <sup>2</sup>



#### FUGAFLEX

Two component material. Component A is a cement-based, natural stone, synthetic resins and special pigments powder; component B is an elastomeric-based liquid for high resistance in compression and flexion, and high resistant towards chemical agents and washing detergents.

#### JOINTS PREPARATION

The surface covered with tiles and the spaces between them should be completely clean. If the tiles attachment is achieved through adhesive, the joints filling in walls should be made after 8-12 hours; joints filling in floors is made after 12-24 hours. If the tile attachment is achieved through traditional or pre-prepared cement-based mortar, then the joints filling in walls is made after 2-3 days and in floors after 8-10 days.

#### MIXTURE PREPARATION

First, mix 200gr of B component with 300 - 500 ml clean water, and then add A component in powder form. The stirring is realized through a low-revolution agitator (200-300 rotations/minute), until you see the creation of a homogenous mixture, free of granules. Following that, let the mixture to settle for 5 minutes, and then stir for another minute before its application. This way, the product will be ready for use.

#### METHOD OF APPLICATION

Joints are filled through a soft rubber spatula. Excessive filler can be removed through a wet sponge after Fugaflex 0 - 5 mm has reached a sufficient solidification (usually, after 15-20 minutes after its application). Wall or floor cleaning is made through a dried cloth CG2 - S2 or a woolen cloth when the filler is fully solidified. Cleaning can also be made a day after the application of the joints filler.

#### TEMPERATURE OF APPLICATION

Fugaflex 0-5 mm is recommended to be applied at temperatures from +5°C at +35°C.

#### JOINTS PREPARATION

The surface covered with tiles and the spaces between them should be completely clean before applying the product. If the tiles attachment is achieved through adhesive, the joints filling in walls should be made after 4-8 hours; while, joints filling in floors is made after 24-36 hours. If the tile attachment is achieved through traditional, then the joints filling in walls is recommended to be made after 2-3 days and in floors after 8-10 days.





#### TECHNICAL DATA (IN 23°C AND 50% U.R)

Form of A component	powder
Form of B component	liquid
Color of A component	Look at the table of colors
Color of B component	
Shelf-life storage	24 months in original packaging and dry environment
Combustibility	Incombustible
Mixing ratio	additive + 500 gr water for bucket
Mix density	2 gr/cm <sup>3</sup>
pH of the mixture	12
Consistency of mix	Fluid paste
Temperature of application	+5°C to +35°C
Pot life of mixture	2 hours
Trafficable	after 24 hours
Wall joints filling	after 8 to 12 hours
Floor joints filling	after 24 to 36 hours

#### FINAL DATA

Resistance to moisture	very good
Resistance to solutions and fats	very good
Resistance to compression	≥ 30 N/mm <sup>2</sup>
Resistance to flexion	≥ 10 N/mm <sup>2</sup>



## 2.4 TILE GROUT 3 - 20 mm

### MEGAFUGA 3-20 mm



Unit of measurement	Pieces/Box	Consumption
5 kg/bag	4 pcs/box	0.2-2 kg/m <sup>2</sup>



#### MEGAFUGA

Stucco for filling the cement-based joints, with selected granulometry and high resistance towards water. It serves for the filling of 3 - 20 mm joints.

#### TECHNICAL FEATURES

- It is a powder, cement-based material, with natural stone powder with selected granulometry, synthetic resins, hydrophobic additives and coloring pigments.
- Good workability and opening
- Easily cleaned.
- Its final result is a smooth surface
- Waterproof
- High resistance against bases (alkali) and detergents.
- Resistant to corrosion.
- Resistant to UV radiation.
- Prevents the process of fluorescence.

According to EN 13888 classification, it belongs to CG2-WA category.

#### AREA OF APPLICATION

Megafuga 3 - 20 mm is used to stucco joints in porous ceramic, monocotto, bicotto, gres, porcelain and natural stone tiles with a 3 - 20 mm space. It is used to stucco floors and outdoor coatings, where a high impermeability, elasticity and mechanical strength are required; for surfaces with vibrations, for surfaces with swelling and shrinkage (terraces, under-floor heating, pools, fountains, etc.). Megafuga stucco should be reinforced with 500 gr additive DW 17 diluted in 700 - 1000 ml water for one Megafuga bag of 5 Kg.

#### METHOD OF PREPARATION

Mix 5 kg Megafuga with 1- 1.5 l of clean water with a low-revolution electric agitator. Stir them until you get a homogenous mixture. Following that, the homogeneous mixture is left to settle for 10 minutes. Before its application, it is recommended to mix the solution again. Prior to reinforcing Megafuga with DW 17 additive, dilute 500gr DW 17 in a container with 700 - 1000 ml. water, and then slowly pour the Megafuga powder, which we mix in the previously mentioned method.

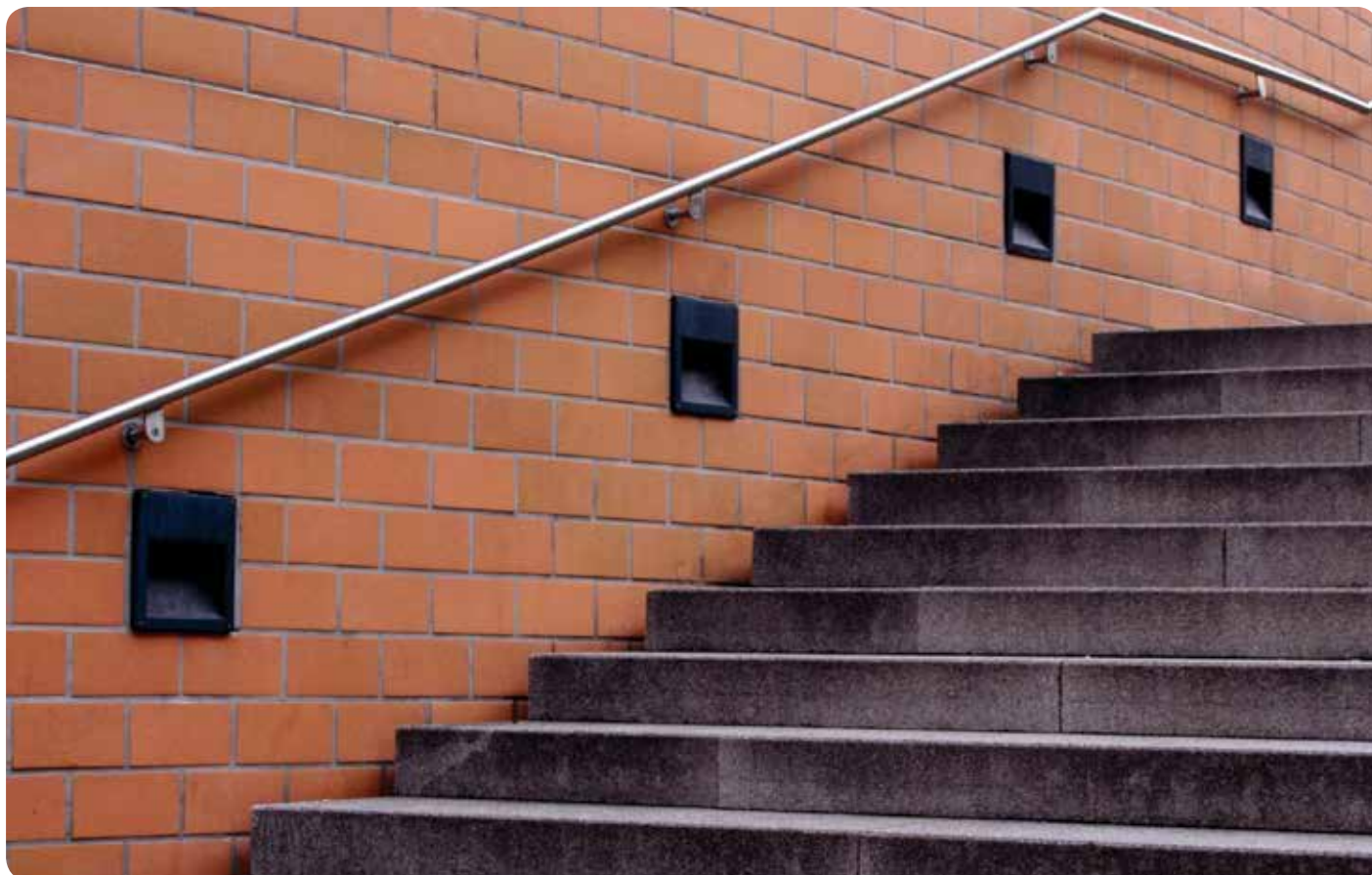


#### METHOD OF APPLICATION

Spaces between tiles are easily filled using a rubber screed. Removal of the remaining material should be made with a wet sponge in the moment when Megafuga has reached the required stability and consistency (this consistency is achieved for about 20 minutes after the application of Megafuga). The final cleaning of the tiles is made with a dry cloth. The final cleaning can be made even the following day, when the material has solidified; in this case, use an appropriate cleaning cloth.

#### TECHNICAL DATA (IN 23°C AND 50% U.R)

Form	Powder
Color	look at the colors table
Shelf-life storage	24 months in original packaging and dry environment
Combustibility	Incombustible
Mixing ratio	1 - 1.5 L water for 5 Kg Megafuga
Consistency of mixture	Fluid and fluent mixture
Mixture density	2 gr/cm <sup>3</sup>
pH i mixture	12
Pot life	2 hours



#### FINAL DATA

Resistance to moisture	high
Resistance to liquids and greases	good
Resistance to acids	not good
Resistance to compression	$>25 \text{ N/mm}^2$
Resistance to flexion	$>8 \text{ N/mm}^2$
Absorption (water absorption) after 4 hours according to (EN 13888)	$< 2$

#### PACKAGING

Megafuga is supplied in 5 Kg bags.



## 2.4 TILE GROUT 3 - 20 mm

### FUGARAPID



Unit of measurement	Pieces/Box	Consumption
5 kg/bag	4 pcs/box	0.2-1 kg/m <sup>2</sup>



#### FUGA RAPID 3 - 20

Cement-based stucco, with quick drying time, high granulometry to fill 3 - 20 mm joints.

#### CHARACTERISTICS

-It is a powder, cement-based material, with natural stone powder, synthetic resins, special hydrophobic additive and coloring pigments with high resistance to alkalis and detergents. It is resistant to light and has the ability to retain its original color.

According to EN 13888 classification, it belongs to CG2-WA category.

It is characterized from:

- Good workability and opening.
- Easily cleaned.
- Its final result is a smooth surface
- Waterproof
- High resistance against bases (alkali) and detergents.
- Resistant to corrosion.
- Resistant to UV radiation.
- Prevents the process of fluorescence.
- Available in 30 colors.

#### SPECIFICATIONS

Stuccos that are used to fill floor and wall joints that are 3 - 20 mm in size, should be caulked with cement-based filler, which is resistant to water (with a water absorption less than 2g/m<sup>2</sup> / minute, determined according to the rate EN 13888), of Fuga Rapid type

#### AREA OF APPLICATION

Fuga RAPID 3 - 20 mm is used in the following cases: to stucco joints between porous ceramic, monocotto, bicotto, gres, porcelain and natural stone tiles with a 3 – 20 mm space. It is used to stucco floors, outdoor coatings, where a high impermeability, elasticity and mechanical strength are required; for surfaces with vibrations, for surfaces with swelling and shrinkage (terraces, under-floor heating, pools, fountains, etc.). Fuga Rapid stucco should be reinforced with 500 gr additive DW 17 diluted with 700 - 1000 ml water for one Fuga Rapid bag of 5 Kg.

#### METHOD OF PREPARATION

Stir 5 kg Fuga RAPID with 1- 1.5 l of clean water with a low-revolution electric agitator. Stir them until you get a homogenous mixture. Following that, the homogeneous mixture is left to settle for about 5 minutes. Before its application, it is recommended to stir the solution again. Prior to reinforcing Fugacolor with DW 17 additive, dilute 500gr DW 17 in a container with 700 - 1000 ml water, and then slowly pour the Fuga FAST powder, which we mix in the previously mentioned method.



#### TECHNICAL DATA (IN 23°C AND 50% U.R)

Form	Powder
Color	Look at the colors table; available in 30 colors
Shelf-life storage	24 months in original packaging and dry environment
Combustibility	Incombustible
Mixing ratio	1 - 1,5 L water for 5 Kg Fuga Rapid 3 - 20 mm
Mixture density	2 gr/cm <sup>3</sup>
pH of the mixture	12
Consistency of mixture	fluid paste
Temperature of application	+5°C to +35°C
Pot life of mixture	2 hours
Trafficable	after 3 hours
Filling walls joints	after 8 to 12 hours
Filling walls joints after being attached with Dw 2200 Rapid	after 3 hours
Filling of floor joints	after 24 to 36 hours
Filling of floor joints after being attached with Dw 2200 Rapid	after 3 hours



## 2.5 RESIN BASE EPOXY TILE GROUT

### EPOFUGA EFG-6700



Unit of measurement	Pieces/Pallet	Consumption	Color/Other specifications
5 kg/A&B	60 pcs / pallet	0.2-1kg/m <sup>2</sup>	According to Catalog



#### EPOFUGA EFG - 6700

Bi-component, epoxy adhesive and joints filler for walls and floors.

#### DESCRIPTION

EPOFUGA EFG - 6700 is a bi-component tile adhesive, epoxy-based, free of solvents. It is characterized by high resistance to compression, flexion and outstanding adhesive strength. EPOFUGA EFG - 6700 is resistant to some acids, alkalis, corrosive concrete agents, cleaning agents, sea water and salt water. EPO FUGA EFG - 6700 has a great workability for applications in floors and walls. It can also be easily cleaned with water before it solidifies. It is suitable for joints with 0 - 12 mm dimensions. The product is classified as tiles stucco with RG2 norm, according to EN 13888, and as tiles adhesive with R2 norm, according to EN 12004.

#### AREA OF APPLICATION

EpoFuga EFG 6700 is applied in those environments where high mechanical strength and resistance to chemical agents is required. The product is utilized for industrial use. It is suitable to attach tiles on the floors and walls, and for filling joints in industrial areas, such as: breweries, dairies, laboratories, slaughterhouses and in other sectors of food or chemical industry, as well as swimming pools, kitchens etc. According to W - 347, EPA 330,5 and EPA 110.2 EPOFUGA EFG – 6700 is also suitable for surfaces that are in direct contact with food products.

#### JOINTS FILLING

Mixture is poured gradually into the dried and clean joints, and is opened by using a rubber trowel in a diagonal direction to the direction of the joint; this way, you will achieve a complete filling of the joints and will remove the excess material. The other part of the epoxy joint that remains on the tile surface, is removed by using a wet and slightly rough sponge. After that, clean the tiles with a clean, soft and slightly wet sponge. Using lukewarm water makes cleaning easier. For a better cleaning, add 10% of alcohol (in weight) into the water.

#### TECHNICAL DATA

Base	Bi-component epoxy resin
Color	Different colors
The mixing ratio	9:1 in weight
Density	1,85 ± 0,05 Kg/lit in 23°C
Pot life	Approximately 45 min in 23°C
Cleaning	within 45 min in 23°C
Trafficable	after 16 h in 23°C
Minimal solidifying temperature	+10°C
Partial solidification	after 48 h in 23°C
Full solidification	after 7 days in 23°C
Resistance to compression	50 N/mm <sup>2</sup> ( DIN EN 196 - 1 )
Flexural strength	35 N/mm <sup>2</sup> (DIN EN 196 - 1)
Resistance to consumption	≤ 200 mm <sup>3</sup>
Shrinkage	≤ 1,0 mm/m
Water absorption after 240 min	≤ 0,02 g
Resistance to pulling	> 5,5 N/mm <sup>2</sup>
Resistance to pulling after heat	> 4 N/mm <sup>2</sup>
Resistance to pulling after water immersion	> 5 N/mm <sup>2</sup>
All measurements were conducted	according to EN 12004
Cleaning of work tools:	Tools should be cleaned with water after each work interruptions

#### SHELF-LIFE-STORAGE

24 months after the production date, if preserved in its original closed packaging, in environments protected by moisture and direct exposure to sun. Storage temperature should be between +5°C and +35°C.



## 2.5 RESIN BASE EPOXY TILE GROUT

### PREMIUM



Unit of measurement	Pieces/Pallet	Consumption	Color/Other specifications
3 kg/A&B	60 pcs / Pallet	0.2-1kg/m <sup>2</sup>	View the catalogue



#### PREMIUM

Two component, epoxy-based tiles stucco.

#### CHARACTERISTICS

Bi-component stucco with 30 prepared shades, free of diluents, with epoxy-based resins and thin salicyl inserts. It is resistant to acids, alkalis, strong cleaners, most of organic diluents and chlorinated water or salty water. It manifests excellent workability, high adhesion in the sides of the joints and is completely waterproof, without being spotted. It is not absorbing, does not allow bacteria development, is easily cleaned on a daily basis, and it is also resistant to hygiene conditions. It is suitable for joints from 1 - 10 mm wide. The final surface is absolutely smooth, as porcelain. Before solidifying, it is easily cleaned with lukewarm water. The product is classified in RG2 category, according to EN 13888.

#### AREA OF APPLICATION

Premium with 30 prepared shades is suitable for polished granite tiles, wherever esthetics requires white or white color fugue and where the shade will not change due to stains and pollution. It is also used to stucco marble joints, thus preventing water and pollution absorption, contrary to cement-based stucco powders. It is recommended for marble sculptures and mosaics in swimming pools, swimming facilities and public toilets. It replaces the corroded stuccos of cement-based joints in pools, where previously we have pulled out the old layer in 3-4 mm depth. It also attaches excellently every application in marble.

#### METHOD OF APPLICATION

##### 1. Prepare the surface

Remove potential remains of the cement-based adhesive and other contaminants from the joints and granite or marble surface.

##### 2 Application

Joints are filled with a rubber spatula, by opening and pressing it diagonally to the joints, without leaving spaces or residue.

#### TECHNICAL DATA (IN 23°C AND 50% R.H.)

Form	A (resin), thick paste- 32 chosen shades
B (solidifier)	Paste-beige
Specific mixture weight	1,65±0,05 Kg/lt
The mixing ratio	9 parts A / 1 part B
Pot life in the container	2 hours at 20°C, 1 hour at 40°C
Temperature of application	from +10°C to +35°C
Thermal resistance	from -40°C to +110°C
Trafficable	after 16 hours in 23°C

#### MECHANICAL RESISTANCE

28 days resistance, according to EN 196- 1, in

- flexion 29.0 N/mm<sup>2</sup>
- Breaking 58,0 N/mm<sup>2</sup>

7 days resistance, according to DIN 18156, in

- Detachment 3,5 N/mm<sup>2</sup>

#### PACKAGING

3 Kg (A+B) container

#### CONSUMPTION

To stucco joints from 0,2 - 3.0 Kg/m<sup>2</sup>, analogously to the thickness of the tiles and width of the joint

#### SHELF-LIFE-STORAGE

It is stored in shady and dry environments, with low level of moisture, for at least 24 months after the production date.



## 2.5 RESIN BASE EPOXY TILE GROUT

### EPOFUGA GG 7700



Unit of measurement	Pieces/Pallet	Consumption	Color/Other specifications
5 kg/A&B	60 pcs/pallet	0.2-2kg/m <sup>2</sup>	White - 01 Grey - 04



#### EPOFUGA GG 7700

Bi-component, epoxy-based, facilitated tiles stucco.

#### CHARACTERISTICS

Bi-component stucco, free of diluents, with epoxy-based resins and facilitated salicyl inserts. It is resistant to acids, alkalis, strong cleaners, most of organic diluents and chlorinated water or salty water. It manifests excellent workability, high adhesion in the sides of the joints and is completely waterproof, without being spotted. It is not absorbing, does not allow bacteria development, is easily cleaned on a daily basis, and it is also resistant to hygiene conditions. It is suitable for joints from 1 - 10 mm wide. The final surface is absolutely smooth, as porcelain. Before solidifying, it is easily cleaned with lukewarm water. The product is classified in RG2 category, according to EN 13888.

#### AREA OF APPLICATION

EPOFUGA GG 7700 is suitable for filling joints in environments where strong chemicals are used, such as laboratories, production lines etc.

#### METHOD OF APPLICATION

##### 1. Prepare the surface

Remove potential remains of the cement-based adhesive and other contaminants from the joints and granite or marble surface.

##### 2 Application

Joints are filled with a rubber spatula, by opening and pressing it diagonally to the joints, without leaving spaces or residue.

#### MECHANICAL RESISTANCE

28 days resistance, according to EN 196-1	
• Flexion	29.0 N/mm <sup>2</sup>
• Breaking	58,0 N/mm <sup>2</sup>
7 days resistance, according to DIN 18156,	
• Detachment	3,5 N/mm <sup>2</sup>

#### PACKAGING

5 Kg (A+B) container

#### CONSUMPTION

To stucco joints from 0,2 - 2.0 Kg/m<sup>2</sup>, analogously to the thickness of the tiles and width of the joint.

#### SHELF-LIFE-STORAGE

It is stored in shady and dry environments, with low level of moisture, for at least 24 months after the production date.



#### TECHNICAL FEATURES (IN 23°C AND 50% R.H.)

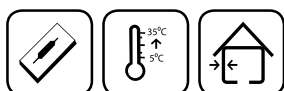
Form A (resin)	Thick paste
B (solidifier)	Paste
Color	beige
Specific mixture weight	1,65±0,05 Kg/lt
Mixing ratio:	9 parts A:1 part B
Pot life in the container	2 hours in 20°C, 1 hour in 40°C
Temperature of application	from +10°C to +35°C
Thermal resistance	from -40°C to +110°C
Trafficable	after 16 hours in 23°C



### FLEX PU 40 PLUS



Packaging	Pcs/box	Consumption
600 ml	12 pcs/box	Grey



#### FLEX PU - 40 PLUS

Polyurethane-based silicone with extremely high resistance to chemicals.

#### CHARACTERISTICS

Mono-component, polyurethane-based, elastic joints mastic. It is mechanically resistant, does not anoint, and is resistant to snow and sun. It is not affected by water, being it salty or not. It can be coated and is good to seal joints of 6 - 30 mm width and 3 - 15 mm depth.

#### APPLICATION

FLEX PU - 40 PLUS is suitable for elastic, high standards sealing. It can be used in different applications:

- Coverage of swelling joints in buildings, airport hallway, connection of cement sewer pipes, prefabricated concrete walls.
- Sealing joints in the joineries of aluminum, metal, wood and PVC windows, doors.
- Perimetric waterproof of buildings to connect horizontal and vertical outdoor surfaces.
- Protection of adhesion and sealing during the laying of tiles, at the swelling joints fillings, in indoor and outdoor surfaces, and also in filling perimetric joints situated at the junction of floor tiles and walls or ledges, and also at balconies before covering with ledge.
- Sealing of metal or wood railing in their junctions with marble, natural stone or concrete in terraces, balconies, walls.
- In shipbuilding works, for every elastic sealing or to fix polyesters with wood, stainless steel or aluminum.

#### METHOD OF APPLICATION

##### 1. Preparation of the surface

Substrate should be stable, dry and free of oils. If the surface is made of concrete or plaster, remove from the sides of the joints rotten materials and powders with a wire brush and vacuums or pressured air and brush. The depth of joint is determined in the half of its width and is adjusted with a swollen polyethylene or, if nonexistent, a swollen polystyrene joint filling cord. Using the adhesive paper on the joint borders facilitates the accurate determination of the sealing line, and helps for a better sealing and indestructible adhesion of FLEX PU - 40 PLUS.

#### PACKAGING

Carton boxes with 12 Tube of 600 ml

#### SHELF-LIFE-STORAGE

It is stored in shady and dry environments, for at least 12 months after the production date.

#### TECHNICAL FEATURES

Polyurethane-based	
Form ,color	Grey
Temperature of application	from +5°C to +30°C
Thermal resistance	from - 30°C to +80°C
Specific weight	1,15 - 1,19 g/ml
Time for creating surface membrane	15 - 20 minutes
Possibility of joint deformation	25%

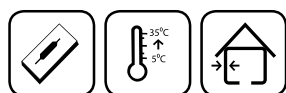


## 2.6 ADDITIONAL PRODUCTS FOR JOINTS TREATMENT

### FLEX PU 40



Packaging	Pcs/box	Consumption
600 ml	12 pcs/box	Grey



#### FLEX PU - 40

Polyurethane-based silicone.

#### CHARACTERISTICS

Mono-component, polyurethane-based, elastic joints mastic. It is mechanically resistant, does not anoint, and is resistant to snow and sun. It is not affected by water, being it salty or not. It can be coated and is good to seal joints of 6 - 30 mm width and 3 - 15 mm depth.

#### APPLICATION

FLEX PU - 40 is suitable for elastic, high standards sealing different applications:

- Coverage of swelling joints in buildings, airport hallway, connection of cement sewer pipes, prefabricated concrete walls.
- Sealing joints in the joineries of aluminum, metal, wood and PVC windows, doors.
- Perimetric waterproof of buildings to connect horizontal and vertical outdoor surfaces.
- Protection of adhesion and sealing during the laying of tiles, in the swelling joints fillings, in indoor and outdoor surfaces, and also in the filling of perimetric joints situated at the end of floor tiles with walls or ledges, and also at balconies before covering with ledge.
- Sealing of metal or wood railing in their junctions with marble, natural stone or concrete in terraces, balconies, walls.
- In shipbuilding works, for every elastic sealing or to fix polyesters with wood, stainless steel or aluminum.

#### METHOD OF APPLICATION

##### 1. Preparation of the surface

Substrate should be stable, dry and free of oils. If concrete or plaster surfaces, remove rotten materials and powders from the sides of the joints with a wire brush and vacuum or pressured air and brush.

The depth of joint is determined in the half of its width and is adjusted with a swollen polyethylene or, if nonexistent, a swollen polystyrene joint filling cord. Using the adhesive paper on the joint borders facilitates the accurate determination of the sealing line, and helps for a better sealing and indestructible adhesion of FLEX PU - 40.

#### PACKAGING

Carton boxes with 12 Tube of 600 ml

#### SHELF-LIFE-STORAGE

It is stored in shady and dry environments, for at least 12 months after the production date.

#### TECHNICAL FEATURES

Polyurethane-based	
Form, color	Grey
Temperature of application	from +5°C to +30°C
Thermal resistance	from - 30°C to + 80°C
Specific weight	1,15 - 1,19 g/ml
Time for creating surface membrane	15 - 20 minutes
Possibility of joint deformation	25%



## 2.6 ADDITIONAL PRODUCTS FOR JOINTS TREATMENT

### D 707 ULTRACOLOR



Unit of measurement	Pieces/Box	Color/other specifications
280 ml	12 pcs/box	Transparent White Beige Anemone Light Grey



#### D 707 ULTRACOLOR

Elastic neutral silicone.

#### CHARACTERISTICS

Silicone with great elasticity and high adhesiveness in porous surfaces. It is resistant to mold, bad weather conditions, UV rays, detergents, acid and salt water. It stabilizes quickly by reacting with moisture; manifests a special adhesive strength and enduring resistance in the joints with considerable mobility, without splitting or peeling.

#### AREA OF APPLICATION

D 707 Ultracolor silicone is used without primer in materials such as: porcelain, glass, enameled ceramics, polyester, anodized aluminium, varnished wood, to silicone 3-4 mm wide joints in indoor and outdoor surfaces. It is necessary for joints sealing in kitchen counters, stainless dishwashers, perimetrically in sinks, baths, porcelain or plastic shower trays, industrial environments where the development of fungi is not allowed. It is recommended for sealing and mounting glass constructions and also various hydraulic applications, cooling systems and electrical appliances and also in tiles mounting.

#### METHOD OF APPLICATION

##### 1. Preparation of the surface

Substrate should be stable, dry and free of oils and dust. If primer is needed, put the silicone minimally 20 minutes beforehand or maximally 3 hours beforehand. For a better installation, it is recommended to clean the surface from other contamination and to use adhesive paper before every silicone usage, which is then removed after the silicone usage.

#### APPLICATION

Place the tube in a special pistol and cut its tip slantwise, by directing the nozzle at a 45° angle to the direction of the joint axis, filling it without blocking the air. Wipe down the joint within 10 minutes, with one finger or spatula which is made wet with water or detergent.



#### CONSUMPTION

Joint	Linear meters
4 x 6 mm	12,9
6 x 6 mm	8,6
8 x 6 mm	6,4
12 x 8 mm	3,2
16 x 10 mm	1,9
20 x 12 mm	1,3

#### PACKAGING

Carton boxes with 6 tubes of 280 ml

#### SHELF-LIFE-STORAGE

It is stored in environments protected by frost, until 18 months after its production date.



### FUGA TAPE



Code	Diameter	pieces/box
D-6	6 mm	1000 ml/box
D-8	8 mm	550 ml/box
D-10	10 mm	350 ml/box
D-13	13 mm	200 ml/box



#### FUGA TAPE

Rubber tape to control the depth of silicone application into the dilatation joints.

#### CHARACTERISTICS

Spherical and very flexible tape which is compressed without losing flexibility. It ensures movement of all types of silicones and is characterized by a simple and easy placement.

#### AREA OF APPLICATION

FUGA TAPE adjusts the required depth of the joint and help in preventing the adhesion of the three parts of the silicone, based on standards.

#### APPLICATION PROCEDURE

The diameter of the tape should be 25% greater than that of the dilatation joint. Place the tape carefully so that you do not split or damage it. For this reason, avoid the use of sharp tools during its mounting. Excess tape is not recommended. After mounting the tape, apply the appropriate, polyurethane-based silicone.

#### STORAGE

It should be stored in its original packaging and in a normal environment, protected by direct exposure to sun.



2.6 ADDITIONAL PRODUCTS FOR JOINTS TREATMENT

GLITTER



Unit of measurement	Pieces/Pallet	Consumption	Color/Other specifications
100 g/bag	10 pcs/box	500 gr for 5kg epoxy joints	Gold Silver



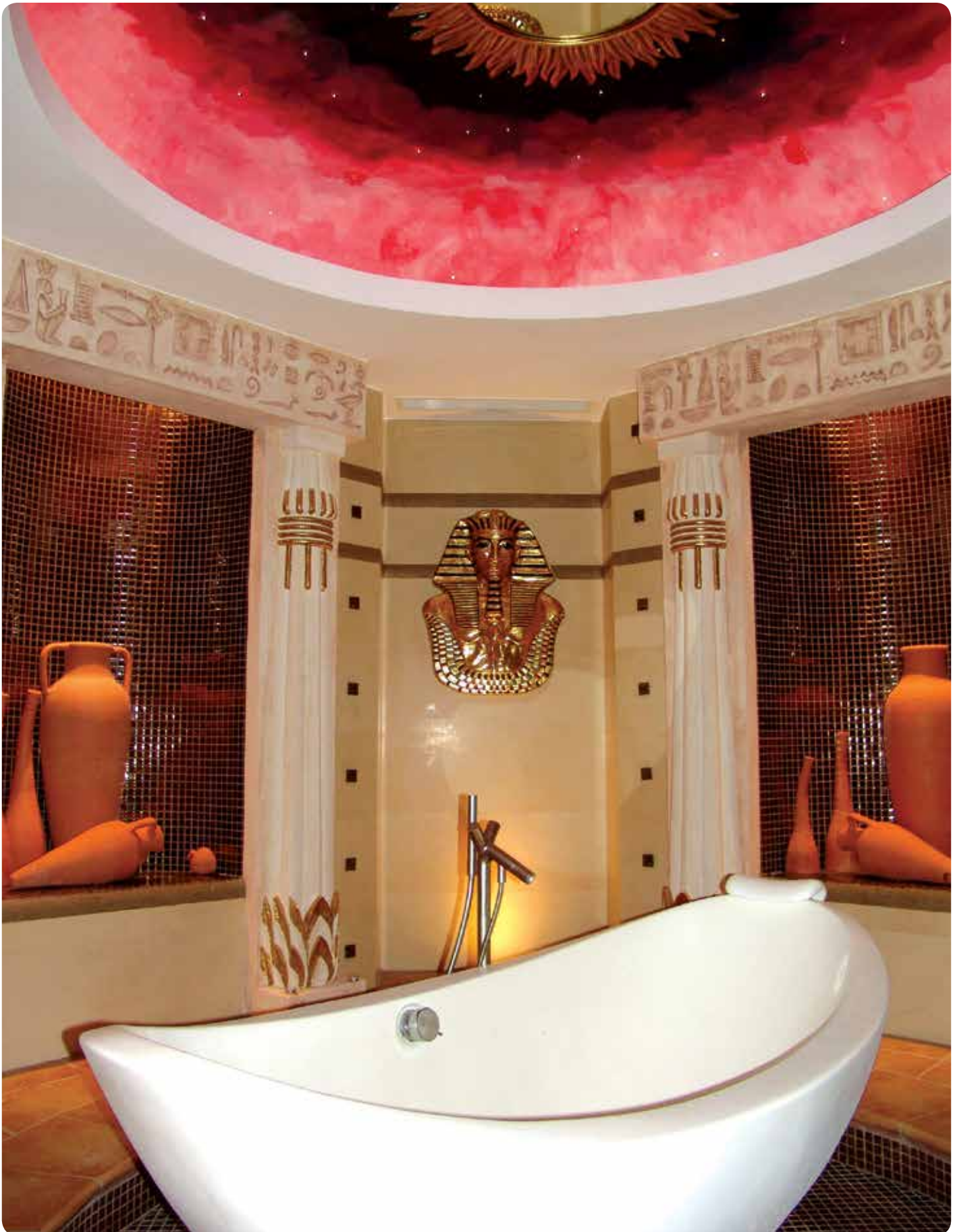
**GLITTER**  
Metallic colored glitter, polyester and aluminum-based

**AREA OF APPLICATION**  
Glitter is added to PREMIUM up to 10% in report with the product’s weight. Glitter is available in two colors, Silver and Gold. After complete mixing, it gives the product special decorative FEATURES. Do not use more than the recommended dose. This product is not recommended for pools and outdoor usage.

**INSTRUCTIONS FOR USE**  
It is recommended to add up to 10% of the PREMIUM weight. This adding is made directly during the mixing of component A and B. After mixing, the product must be applied within the allowed time, before the product solidifies.

**STORAGE**  
It should be stored in covered and dry environments.





# PERFECT **WATERPROOFING** FOR YOUR PLACES



## 03. HYDROINSULATION

## 3.1 ONE-COMPONENT WATERPROOF

### MONOLIT



Unit of measurement	Pieces/Pallet	Consumption	Color/Other specifications
25 kg/sack 5 kg / bag	54 pcs/pallet 60 pcs / box	3-4 kg/m <sup>2</sup>	Grey



#### MONOLIT

Cement-based, mono-component, waterproof mortar.

#### CHARACTERISTICS

Cement-based, mono-component, waterproof mortar which possesses good isolating qualities to moisture and protects concrete from carbonizing. It is suitable to be used for the waterproofing of water deposits, basements, etc. Easy to apply, low application costs and does not have corrosive effects for concretes reinforced with steel.

#### AREA OF APPLICATION

It is used to protect concrete and plaster surfaces and walls from humidity. Suitable to waterproof water deposits, basements, underground buildings, etc. Suitable for the internal waterproof of underground areas, such as: basements, because it is resistant to high pressures thanks to the strong bond it creates with the support.

#### METHOD OF PREPARATION

Preparation of the support

The surface must be free of dust, grease and any other type of impurities. If there are crevices or cracks in surface where MONOLIT will be applied, first close them and then apply the product. In cases of wires sticking out of the surface where the product will be applied, they should be cut to a depth of 2 to 4 cm and then the created hole should be closed; after that, the surface is ready for the product.



#### APPLICATION

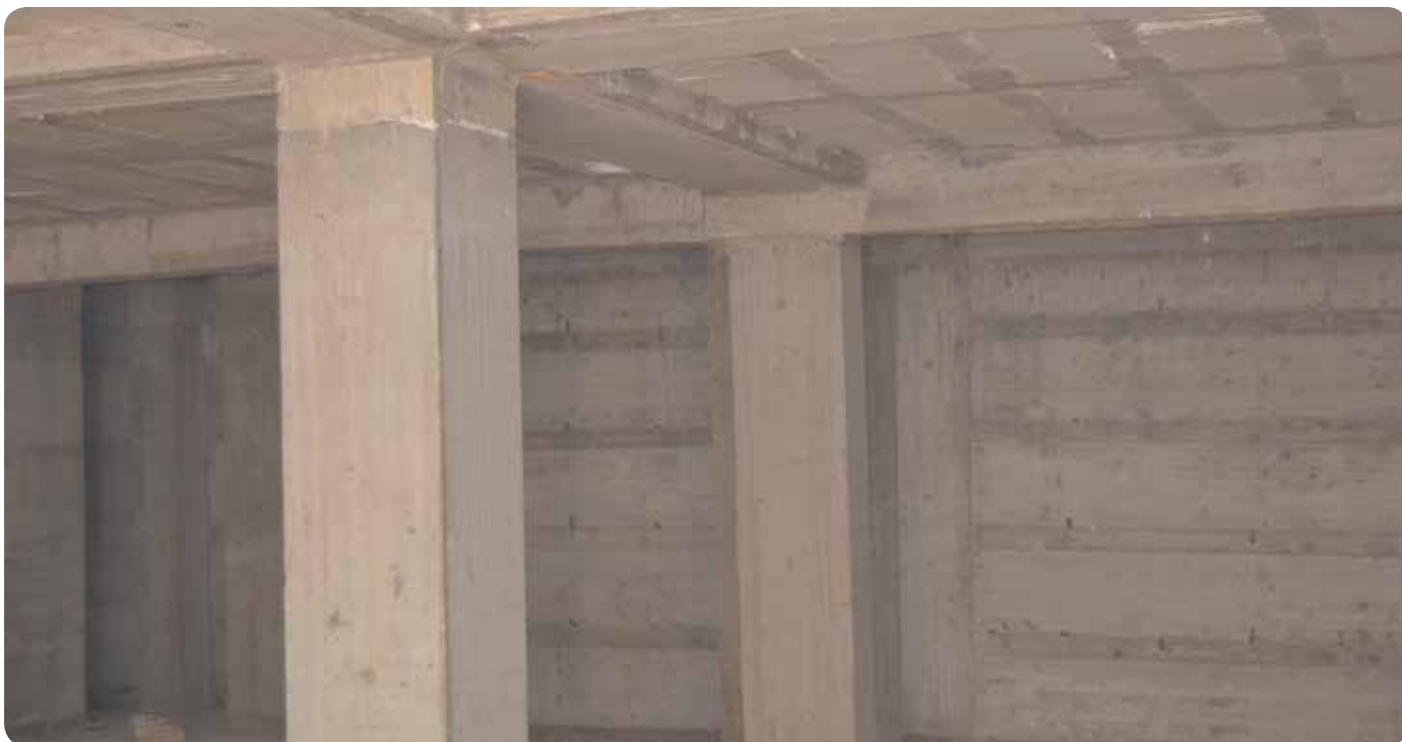
MONOLIT is added gradually to the required amount of water, by stirring it continuously until the creation of a viscous mass, which is appropriate to be applied with a brush. The surface where the product will be applied should be completely dry and free of any moisture traces. The product will be applied in two or more layers, depending on the environment where it is going to be applied. Each layer should not be thicker than 1 mm in order to avoid crevices. The following layer is applied after the previous layer gets completely dried.

#### PACKAGING

MONOLIT is supplied in 25 Kg sacks 5 kg bag

#### SHELF-LIFE - STORAGE

12 months after manufacture date, if preserved in its original packaging, protected by direct exposure to sun and frost.



#### TECHNICAL DATA

Form	Powder
Color	Grey
Mixture density	1.30 gr/cm
Combustibility	Incombustible
Shelf-life storage	12 months in original packaging and dry environment
Mixing ratio	
By spatula	6-7 L water for 25 kg MONOLIT
By brush	7 - 8 L water for 25 Kg MONOLIT
pH of the mixture	12
Pot life of mixture	45 min
Application time between 2 layers	After 4 hours at 23°C
Max thickness	1 mm



## 3.1 ONE-COMPONENT WATERPROOF

### MONOFLEX



Unit of measurement	Pieces/Pallet	Consumption	Color/Other specifications
25 kg/sack	54 pcs/pallet	3-4 kg/m <sup>2</sup>	Grey



#### MONOFLEX

Flexible, waterproofing, mono-component material, with good waterproofing and protective qualities.

#### TECHNICAL FEATURES

Dust, cement-based, mono-component material, with selected granulometry, synthetic resins, special additive and hydrophobic qualities. The material is mixed with water, thus creating a liquid and homogeneous mixture. Easily applicable through a spatula or brush. Thanks to its high content of resins, it possesses good adhesive qualities.

#### CHARACTERISTICS

1. Should not be used to waterproof plastic, wood, drywall or painted walls.
2. Do not add other components, such as cement, lime, etc, in the mixture.
3. Do not apply it in surfaces which contain stagnant water.
4. Do not use the product to solve problems of internal condensation; for this, you should use an appropriate product.
5. If you want to improve the product's elasticity, reinforce it with FLEXIT additive.

#### AREA OF APPLICATION

It is used for the laying of waterproofing membranes prior to fixing the tiles, indoor and outdoor. It is used for the waterproofing of internal and external underground walls, water deposits, restrooms, terraces, balconies and fountains. It provides a flexible and resistant protection towards water and humidity for concrete and plaster surfaces. It provides waterproofing and elastic leveling for cracked plasters.

#### PREPARATION OF MIXTURE

The material is mixed with a quantity of water, depending on the application method. If the waterproof will be applied with a spatula, mix it with 6-7 L. If the waterproof will be applied with a brush, mix it with 7-8 L of water for every 25Kg of the product. Stir it with a low-rotation

agitator until you see the creation of a homogeneous mixture. Let the mixture to settle for 10 minutes. It is recommended to stir the mixture before using it.

#### PREPARATION OF THE SUPPORT

Cement floors in balconies, terraces, restrooms, etc. the surface which will be waterproofed should have a suitable slope and should be free of holes (holes should be covered with FIBREN GP – 70). If there are wire or iron residues sticking out of the concrete or wall, cut them in a 2 – 4 cm depth and then cover the opened hole in the above described manner. The surface that is going to be treated should be completely clean, resistant and stable. For the insulation of basements or old buildings, you should remove any kind of existing plastering up to a height of 30 cm above the level of moisture and then proceed as described above.

#### METHODE OF APPLICATION

The waterproof is applied with spatula or brush, depending on the thickness of the surface that is going to be waterproofed. Application with spatula will be made in 2-3 layers. It is important to let the first layer to settle for 5-6 hours, depending on the environment temperature. The first layer must be completely dried before the application of the other layers of the waterproofing material. Pay attention to the application of the first waterproofing layer, in order to cover the entire surface that is going to be waterproofed.



#### TECHNICAL DATA

Form	Powder
Color	Grey
Mixture density	1.30 gr/cm
Combustibility	Incombustible
Shelf-life storage	12 months in original packaging and dry environment
Mixing ratio	
By spatula	6-7 L water for 25 kg MONOFLEX
By brush	7 - 8 L water for 25 Kg MONOFLEX
pH of the mixture	12
Pot life of mixture	45 min
Application time between 2 layers	After 4 hours at 23°C
Max thickness	1 mm



## 3.1 ONE-COMPONENT WATERPROOF

### AQUABLOCKER EXPRESS



Unit of measurement	Pieces/Pallet	Consumption	Color/Other specifications
25 kg/sack	54 pcs/pallet	3-4 kg/m <sup>2</sup>	Grey



#### AQUABLOCKER EXPRESS

Osmotic cementitious mortar suitable for contact with drinking water, for waterproofing masonry and concrete structures.

#### DESCRIPTION

Aquablocker Express is a pre-blended powder, composed of a cement-based compound, selected graded aggregates and special synthetic resins. When mixed with water, Aquablocker Express becomes a fluid mortar that can be applied by trowel, brush or by spray with excellent adhesion to the substrate for complete waterproofing, even in the presence of slight negative pressure. Aquablocker Express corresponds to the principles defined in EN 1504-9 and EN 1504-2.

#### FIELD OF APPLICATION

- Repairing underground masonries subject to water and moisture seepage in situations with negative pressure up to 1 atmosphere.
- Waterproofing basins, reservoirs, concrete or masonry tanks containing drinking water.
- Waterproofing concrete or masonry tanks containing sewage water.
- As further smoothing and waterproofing compound of underground walls.

#### APPLICATION PROCEDURE

##### A) Preparing the substrate

The surface to be waterproofed must be perfectly clean and sound. Remove crumbly or loose parts, dust, cement laitance, form release agents, varnishes and paint by mechanical brushing, sanding or high water pressure. Renders must be perfectly anchored to the substrate. Seal cracks in the substrate and repair damaged parts with FIBREN GP-70.

##### B) Preparing the product

Pour 7.0-7.5 litres of water into a suitable container and slowly add the Aquablocker Express while blending with a mechanical mixer. Mix thoroughly for some minutes, taking care to blend in all the unmixed powder deposited on the sides and bottom of the bucket, until the mortar is completely blended (free from lumps). Leave the mortar to stand for approximately 10 minutes, remix and apply.

##### C) Applying the product

Apply Aquablocker Express with a brush, trowel or spray. Application by brush requires 2-3 coats. Make sure the previous coat is sufficiently dry before applying the next (generally 5-6 hours depending on the temperature and the absorption of the substrate. In order to have perfect adhesion between the coats, it is recommended not to exceed 24 hours). To achieve proper application, particular care must be taken to cover corners and cove's is required. When application is by trowel, it is recommended to treat the substrate with Aquablocker Express using a brush for the first coat. When spraying, a normal rendering machine (including a rendering machine with bowl-type spray gun) can be used making sure to mix the product beforehand. After having soaked the substrate, apply the mix by spray in two layers. Apply the second one when the first has partially hardened. In all cases the final thickness of Aquablocker Express must be approximately 2-3 mm.

The properties of the hardened layer of Aquablocker Express are such that it can only be used only for rigid waterproofing. Aquablocker Express can not be exposed to any type of traffic. When applied onto floors or surfaces subject to accidental falling of objects that may cause damage, it must be protected with a 40-50 mm thick cementitious screed.

#### CONSUMPTION

Approximately 1.6 kg/m<sup>2</sup> per mm of thickness.

#### PACKAGING

Aquablocker Express is packaged in 25 kg bags.

#### STORAGE

Aquablocker Express may be stored for up to 12 months in its original packaging in a dry place.



#### TECHNICAL DATA

Form	Powder
Color	Grey
Bulk density	1,300 Kg/m <sup>3</sup>
Water demand	7.0 - 7.5 Liters
Application temperature	+5°C - +35°C
Pot life of the mixture	60 minutes
Compressive Strength	> 25 N/mm <sup>2</sup>
Flexural Strength	> 6 N/mm <sup>2</sup>
Bonding Strength	> 2 N/ mm <sup>2</sup>



## 3.2 TWO COMPONENT WATERPROOF

### IZOFLEX



Unit of measurement	Pieces/Pallet	Consumption	Color/other specifications
25 kg / sack	54 pcs / pallet	2-4kg/m <sup>2</sup>	Grey
8 kg / plastic can	60 pcs / pallet	1:3.2	White
13kg/sack		2-4kg/m <sup>2</sup>	Grey
4kg/plastic can		1:3.2	White



#### IZOFLEX

Two component, cement-based material, and elastic waterproof.

#### CHARACTERISTICS

Bi-component, cement-based waterproof, with inerts of selected granulometry, special additives and synthetic polymers in water-dispersion. By mixing the two components, you will get a mixture that can be applied even in vertical surfaces, in a thickness up to 1mm per layer. Thanks to its high content of synthetic resins, it guarantees an excellent adhesion in all concrete, brick and ceramic surfaces (pre-prepared). After solidification, it creates a waterproofing and elastic layer, which is resistant to atmospheric agents.

#### AREA OF APPLICATION

- To lay waterproofing membranes prior to tiling, indoor and outdoor.
- Flexible and elastic protection towards water and humidity for concrete and plaster surfaces. The bigger the water pressure, the thicker should be the application of the product.
- Waterproofing and protective coating for concrete surfaces that are subject to chemical aggression, such as: antifreeze salts, sulfates, etc.
- Waterproofing and elastic leveling of cracked plasters.
- Waterproofing and protective coating for wall foundations.
- Suitable for the waterproofing of surfaces which are subject to vibrations and various deformations.
- Waterproofing of pools with matured concrete (over 6 months).

#### APPLICATION PROCEDURE

##### Preparation of the support

Cement floors in balconies, terraces and pools. the surface which will be waterproofed should have a suitable slope and should be free of holes (holes should be covered with FIBREN GP – 70). If there are wire or iron residues sticking out of the concrete or wall, cut them in a 2–4 cm depth and then cover the opened hole in the above described manner. The surface which will be treated should be completely dry, clean, resistant and stable. For the waterproofing of old basements in old buildings, remove any existing plaster up to a 30 cm height over the moisture level, and then proceed as described previously. In cases of



overlapping tiles on existing ceramic tiles, make sure they are firmly attached; then, clean and prepare the surface of the old floor carefully, firstly with a suitable detergent and then with FUGA CLEAN. Plasters should be matured (7 days for every cm of thickness) with an appropriate adhesion in the support and should have a good mechanic resistance. The surface which will be treated should be completely dry, clean, resistant and stable. Sprinkle the surface which will be waterproofed with water, before the application of IZOFLEX.

#### APPLICATION

Pour component B (liquid) into a clean and suitable container; then, slowly add component A (powder), by mixing them mechanically. Stir carefully with a mechanic, low-speed agitator, until you see the creation of a homogeneous mixture. Manual preparation of the mixture is not recommended. APPLICATION of the material is made with brush or roller in several layers, depending on the protection we want to ensure against water. The material is applied 1mm per layer. The following layer is applied after the previous layer has dried completely. After the application of the material, you should protect it from high temperatures, rain, etc. In the connecting angles of floors and walls or in surfaces with a lot of compression and micro-cracking, IZOFLEX needs reinforcement, i.e.: covering the surfaces with a mesh tape with fibers of 10 cm, and if the surface is very defective, then cover it completely with glass fiber mesh from 65 - 125 gr per m<sup>2</sup>. Mesh is also used for pools and terraces.



**TECHNICAL DATA**  
(at 23°C and 50% U.R)

	A	B
Form	powder	liquid
Color	grey	white
Volumetric measure	1.5 gr/cm <sup>3</sup>	1.1 gr/cm <sup>3</sup>
Dry residue	100%	50%
Combustibility	incombustible	
Mixture color	gray	
Mixing ratio	25	8
Consistency of the mixture	painted with brush	
Working time	≥60 min	
Volumetric measure of mixture	1.7 g/cm <sup>3</sup>	
Application temperature	from +8°C to +30°C	
Maximal thickness per layer	1 mm	
Time between layers	4-5 hours	
Time for tiling	24 hours	
Shelf-life storage	12 months	

## 3.2 TWO COMPONENT WATERPROOF

### GREENPROOF ELASTIC



Unit of measurement	Pieces/Pallet	Consumption	Color/other specifications
10 kg	60 pcs / pallet	2-4kg/m <sup>2</sup>	Component A +B



#### GREENPROOF ELASTIC

Is two-component cement-and-polymer-based coating for elastic waterproofing. In compliance with EN 1504-2.

#### CHARACTERISTIC

Two-component coating;

- Resistant to positive and negative hydrostatic pressure;
- Bridges the micro-cracks;
- Elastic;
- Economical;
- Non-toxic;
- Does not contain chlorides;
- Enables direct application of ceramic tiles with building adhesives;
- Resistant to bacteria;
- Easy to apply;
- Excellent adhesion to substrate;
- Possibility for application on a moist substrate.

#### FIELD OF APPLICATION

For waterproofing of buildings exposed to positive and negative hydrostatic pressure: pools, settling tanks, water treatment plants, basement wall and floor surfaces, reservoirs, canals, concrete pipes, manholes, balconies, sanitary sewers, kitchens, laundry rooms, embedded concrete elements, etc.

#### APPLICATION PROCEDURE

##### Preparation of the substrate

GREENPROOF ELASTIC should be applied on concrete, cement mortar, stone or gypsum cardboard panels. The substrate should be sound, clean, and free of grease and dust, without segregated spots and cracks. If the substrate has segregated spots and cracks, they should be repaired by applying Fibren GP 70 (Repairing mortar). The most appropriate method for cleaning the substrate is to apply water under pressure. If the substrate that is being insulated has flowing water, it should be stopped by applying Hidrostop. The presence of moisture on the substrate does not affect the application of the system.

#### Application

The compound which is to be applied should be prepared by adding the powdery (A) component to the liquid (B) component with continuous mixing (by using a mechanical mixer with 300-500 revolutions per minute). The mixing should continue until reaching complete homogenization of the compound. The compound should be applied by using brushes (120 mm-200 mm wide) or roller brushes in two or three layers. Every next layer should be applied in normal direction on the previously applied dry layer. The time period between the applications of the layers should amount to 6 - 24 hours depending on the temperature. The total thickness of the three layers should amount to approximately 1.0 - 2.0 mm. Treated surfaces should be protected against rain, strong draught and ice for a period of at least 48 hours. When applying the waterproofing, the temperature should be between 10°C and 35°C.

#### CONSUMPTION

1.0 Kg / m<sup>2</sup> per layer

#### PACKAGING

In sets of 10 kg - Integral packaging in a plastic container A Component - 5kg and B Component - 5kg.

#### STORAGE AND SHELF LIFE

24 month if storage in original closed packaging, in dry premises, at a temperature between 10°C and 30°C, protected from direct exposure to sunlight.



#### TECHNICAL DATA

Property	Declared value
Appearance of Component A	Green powder
Appearance of Component B	White liquid
Mixing ratio	A: B = 1: 1
Consistency of fresh mix	250 mm
Bulk density of fresh mortar	1,25 kg / dm <sup>3</sup>
Pot life	5 hours
Adhesion Strength	> 0.8 Mpas
Vapor permeability	Sd <5 m
Capillarity absorption and water permeability	<0.1 kg / m <sup>2</sup> h <sup>1/2</sup>



## 3.2 TWO COMPONENT WATERPROOF

### IZOELASTIC



Unit of measurement	Pieces/Pallet	Consumption	Color/other specifications
25 kg / sack 10 kg / plastic can	54 pcs / pallet 60 pcs / pallet	2 - 4kg/m <sup>2</sup>	Component A Component B



#### IZOELASTIC

Two component, waterproof and cement-based material, elastic, with protective function for terraces, foundations, swimming pools and basements.

#### CHARACTERISTICS

Two component, cement-based waterproof, with inerts of selected granulometry, special additives and synthetic polymers in water-dispersion. By mixing the two components, you will get a mixture that can be applied even in vertical surfaces, in a thickness up to 1mm per layer. Thanks to its high content of synthetic resins and their qualities, it guarantees an excellent adhesion in all concrete, brick and ceramic surfaces (pre-prepared). After solidification, it creates a waterproofing and elastic layer, which is resistant to atmospheric agents.

#### AREA OF APPLICATION

- To lay waterproofing membranes prior to tiling, indoor and outdoor.
- Flexible and elastic protection towards water and humidity for concrete and plaster surfaces. The bigger the water pressure, the thicker should be the application of the product.
- Waterproofing and protective coating for concrete surfaces that are subject to chemical aggression, such as: antifreeze salts, sulfates, etc.
- Waterproofing and elastic leveling of cracked plasters.
- Waterproofing and protective coating for wall foundations.
- Suitable for the waterproofing of surfaces which are subject to vibrations and various deformations.
- Waterproofing of pools with matured concrete (over 45 days).

#### APPLICATION PROCEDURE

##### Preparation of the support

Cement floors in balconies, terraces and pools. The surface which will be waterproofed should have a suitable slope and should be free of holes (holes should be covered with FIBREN GP – 70). If there are wire or iron residues sticking out of the concrete or wall, cut them in a 2 – 4 cm depth and then cover the opened hole in the above described manner. The surface which will be treated should be completely dry, clean, resistant and stable. For the waterproofing of old basements in old build-

ings, remove any existing plaster up to a 30 cm height over the moisture level, and then proceed as described previously. In cases of overlapping tiles on existing ceramic tiles, make sure they are firmly attached; then, clean and prepare the surface of the old floor carefully, firstly with a suitable detergent and then with FUGA CLEAN. Plasters should be matured (7 days for every cm of thickness) with an appropriate adhesion in the support and should have a good mechanic resistance. The surface which will be treated should be completely clean and stable. Sprinkle the surface which will be waterproofed with water, before the application of IZOELASTIC.

#### APPLICATION

Pour component B (liquid) into a clean and suitable container; then, slowly add component A (powder), by mixing them mechanically. Stir carefully with a mechanic, low-speed agitator, until you see the creation of a homogeneous mixture. Manual preparation of the mixture is not recommended. APPLICATION of the material is made with brush or roller in several layers, depending on the protection we want to ensure against water. The material is applied in 1mm per layer. The following layer is applied after the previous layer has dried completely. After the application of the material, you should protect it from high temperatures, rain, etc. In the connecting angles of floors and walls or in surfaces with a lot of compression and micro-cracking, IZOELASTIC needs reinforcement, i.e.: covering the surfaces with a mesh tape with fibers of 10 cm, and if the surface is very defective, then cover it completely with glass fiber mesh from 65 - 125 gr per m<sup>2</sup>. Mesh is also used for pools and terraces.


**TECHNICAL DATA**
**(at 23°C and 50% U.R)**

	A	B
Form	Powder	liquid
Color	Grey	White
Volumetric measure	1.5 gr/cm <sup>3</sup>	1.1 gr/cm <sup>3</sup>
Dry residue	100%	50%
Combustibility	incombustible	
Mixture color	Grey	
Mixing ratio	25	10
Consistency of the mixture	painted with brush	
Working time	≥60 min	
Volumetric measure of mixture	1.7 gr/cm <sup>3</sup>	
Application temperature	from +8°C to +30°C	
Maximal thickness per layer	1 mm	
Time between layers	4-5 hours	
Time for tiling	24 hours	
Shelf-life storage	12 months	

## 3.2 TWO COMPONENT WATERPROOF

### IZOELASTIC UV



Unit of measurement	Pieces/Pallet	Consumption	Color/other specifications
Component A 25 Kg	54 sacks / pallet	2-3 Kg/m <sup>2</sup>	white
Component B 10 Kg	60 plastic cans / pallet		--



#### IZOELASTIC UV

Waterproofing, two component, cement-base material, equipped with elasticity and protective function for terraces.

#### CHARACTERISTICS

Two component hydro-insulant consisting of cement, inerts of selected granulometry, special additives and synthetic polymers in aqueous dispersion. By mixing the two components, you get a mixture which can be applied even in vertical surfaces, with a thickness of until 1mm per layer. Thanks to its high content of synthetic resins and their good quality, it guarantees an excellent adhesion in all the surfaces of concrete, bricks and ceramics (un-prepared). After becoming hardened, it creates a waterproofing and elastic layer which is resistant to atmospheric agents.

#### AREAS OF APPLICATION

- Paving of waterproofing membranes for terrace areas.
- Flexible and resistant protection towards water and moisture for concrete surfaces and plasters. The bigger is the water pressure, the thicker should be the application of the product.
- Waterproof and protective coating for concrete surfaces that are subject to chemical aggression, such as salts, anti-freezes, sulphates, etc.
- Appropriate for the hydro-insulation of surfaces that are subject to vibrations and different deformations.

#### APPLICATION PROCEDURE

##### Preparation of the support

For the cement floor in balconies, terraces and pools, the surface to be isolated should have a suitable slope and should not have holes (the holes must be filled with Fibren GP-70). If there are wire or iron residues in the surface which come out of the depth of the concrete or wall, then they should be cut in a 2-4 cm depth and after that, the opened hole is covered according to the above-described way. The surface to be treated should be completely clean, resistant and stable. For the

insulation of basements in old buildings, every existing plastering should be removed up to a height of 30 cm over the level of moisture, and then continue according to the above-described way. In cases of putting tiles over the existing ceramic tiles, make sure they are well adhered; carefully clean and prepare the surface of the old floor, firstly with an appropriate detergent, and then with FUGA CLEAN. The plasters must be matured (7 days for every cm of depth) through an appropriate adhesiveness in the support and good mechanical resistance. The surface to be treated should be completely clean and stable. Water the surface that is going to be isolated before you apply IZOELASTIC UV.

#### APPLICATION

Pour the B component (liquid) in a clean and appropriate container; afterwards, slowly add the A component (dust), by stirring it mechanically. Carefully stir with a mechanic mixes, in low speed, until you get a homogeneous mixture. The preparation of the mixture is not recommended to be made manually. The application of the material is done through a brush or a roller, in several layers, depending on the protection we want to ensure towards the water. The material is applied 1 mm for layer. The successive layer is applied after the drainage of the previous layer. After applying the material, make sure it is protected from high temperatures, rain, etc. In the corners that join the floors and walls, or in surfaces of much oppression or micro-cracks, etc, IZOELASTIC UV needs reinforcement by covering the surfaces with a web band with fibers of 10 cm and if the surface is very defective, then it is fully covered by a mesh of glass fibers from 65-125 gr per m<sup>2</sup>. Furthermore, the mesh can even be used for pools or terraces.


**TECHNICAL DATA**  
**(AT 23°C AND 50% U.R)**

	A	B
Form	Powder	Liquid
Color	White	White
Volumetric measure	1.5 gr/cm <sup>3</sup>	1.1 gr/cm <sup>3</sup>
Dry residue	100%	50%
Combustibility	incombustible	
Mixture color	White	
Mixing ratio	25	10
Consistency of the mixture	painted with brush	
Working time	≥60 min	
Volumetric measure of mixture	1.7 gr/cm <sup>3</sup>	
Application temperature	from +8°C to +30°C	
Maximal thickness per layer	1 mm	
Time between layers	4-5 hours	
Shelf-life storage	12 months	



### 3.3 ELASTOMERIC WATERPROOF

## AQUABLOCKER PU



Unit of measurement	Pieces/Pallet	Consumption	Color/other specifications
5 kg / bucket	60 pcs / pallet	0.8-1kg/m <sup>2</sup>	White
12 kg / bucket	27 pcs / pallet		



#### AQUABLOCKER PU

Mono-component, polyurethane-based, ready to use waterproof.

#### CHARACTERISTICS

AQUABLOCKER PU is a polyurethane-based, waterproofing coating material for terraces, with high content of polyurethane resins.

- Offers high waterproofing and elasticity.
- It is characterized by excellent adhesive qualities in all cement-based surfaces, in surfaces made of bricks, wood or metal, and on every other waterproofing material. It can be also used in unlevelled layers.
- It ensures high elasticity, thus avoiding cracks and crevices that can be created with time.
- The white color of waterproof during summer helps in lowering the temperature. It is hermetic but allows vapor permeability.

#### AREA OF APPLICATION

AQUABLOCKER PU is used as waterproof in terraces, balconies, walls and places with humidity. It is easily applicable, thus creating a waterproofing membrane with high elasticity and mechanic resistance, without creating cracks or shrinkage. It is also easily applicable in difficult surfaces such as angles, junctions of different materials that create joints, etc. AQUABLOCKER PU is not recommended to be used for the waterproofing of underground basements.

#### MANNER OF APPLICATION

##### Preparation of the support

The surface which will be treated should be completely clean and free of powder, paints, etc. in order to achieve a better waterproofing, it is recommended to treat beforehand the surface which will be waterproofed with AQUABLOCKER PU, with the liner PU - 88 PRIMER.

#### APPLICATION

AQUABLOCKER PU is applied in two layers with brush or roller after the beforehand applied PU 88 PRIMER is completely dried. Consumption is approximately 0.8 - 1 L/m<sup>2</sup>, depending on the surface which will be isolated. The second layer should be applied only after the first layer is

completely dried. Pay attention to the application of the second layer, by applying it in the shape of a cross onto the first layer.

#### CONSUMPTION

Consumption is approximately 0.8 - 1 L/m<sup>2</sup>

#### SHELF-LIFE STORAGE

It is stored in environments protected by freeze, up to 18 months after its production date.

#### PACKAGING

In buckets of 5 Kg and 12 Kg.

#### TECHNICAL DATA (AT 23°C AND 50% U.R)

Form	liquid
Colors	white
Density	1,39 kg/lit
Viscosity	4,000 ± 500 mPa·sec
Elongation at break	900%
Tensile strength	6.4 N/mm <sup>2</sup>
Water impermeability	10 atm



### 3.3 ELASTOMERIC WATERPROOF

## IZOELASTIC LIQUID



Unit of measurement	Pieces/Pallet	Consumption	Color/other specifications
4 kg / bucket 20 kg / bucket	60 pcs / pallet 27 pcs / pallet	0.8 - 1kg/m <sup>2</sup>	white



**IZOELASTIC LIQUID** Is a painting, waterproofing material for terraces, with high content of elastomeric resins.

- It offers a high waterproofing and elasticity.
- It is characterized by excellent adhesive qualities in all cement-based surfaces, in surfaces made of bricks, wood or metal, and every other waterproofing material.
- It can be applied even in unlevelled layers.
- It ensures a high elasticity, thus avoiding the creation of cracks and crevices which might create with time.
- The white color of the waterproof helps in lowering the temperature during summer; it is hermetic but allows vapor permeability

#### AREA OF APPLICATION

IZOELASTIC LIQUID is used as waterproof in terraces, balconies, walls and places with humidity. It is easily applicable, thus creating a waterproofing membrane with high elasticity and mechanic resistance, without creating cracks or shrinkage. It is also easily applicable in difficult surfaces such as angles, junctions of different materials that create joints, etc. IZOELASTIC LIQUID is not recommended to be used for the waterproofing of underground basements.

#### MANNER OF APPLICATION/CONSUMPTION

The surface where the material will be applied should be free of impurities, paints, etc. In order to achieve a better waterproofing, it is recommended that the surface which will be waterproofed with IZOELASTIC LIQUID, be treated beforehand with the liner HYDROPRIMER (consumption 200-300 g/m<sup>2</sup>). IZOELASTIC LIQUID is applied in two layers with brush or roller after the beforehand applied primer is completely dried. Consumption is approximately 0.8 - 1 Kg/m<sup>2</sup>, depending on the surface which will be isolated. The second layer should be applied only after the primer is completely dried. Pay attention to the application of the second layer, by applying it in the shape of a cross onto the first layer. For areas that are characterized by cracking or crevices, it is recommended to reinforce the waterproof by applying a glass fiber mesh of 65 - 125 gr. This mesh is applied immediately after the application of the first layer or waterproof. Following that, over the mesh, apply

from one to two other layers of waterproof. In cases when the surface which will be waterproofed is characterized by continuous cracking and crevices, it is recommended to apply glass fiber mesh in the entire surface which will be waterproofed. In this case, the consumption of IZOELASTIC LIQUID goes to 1 L/m<sup>2</sup>. Pay attention to the mesh applied on the surface which will be waterproofed, which should not create shrinkage; it should be well stretched onto the surface.

#### LOCAL INSULATION OF CREVICES

Apply HYDRO PRIMER liner in the damaged surface in a 10 cm ray, throughout the crevices. After the liner is dried, apply the first layer.

#### TECHNICAL DATA (AT 23°C AND 50% U.R)

Form	Liquid
Colors	White
Density	1,35 g/cm <sup>3</sup>
Elongation at break	500%
Waterproofing	2 atm
Capillary absorption	0,01 kg/m <sup>2</sup> · h <sup>0,5</sup>
Permeability to CO <sub>2</sub>	Sd > 50m
Water vapour permeability	Sd=0,80m)
Adhesion strength	1,3 N/mm <sup>2</sup>
Reaction to fire	Euroclass F
Solar reflectance	90%
Infrared thermal emittance	0,86
Minimum application temperature	+5°C
Temperature resistance	-15°C to +100°C
Viscosity	100.000 mPa. s



Treatment with HYDRO PRIMER



Setting elastic tapes in corners



Application of Izoelastic Liquid

### 3.3 ELASTOMERIC WATERPROOF

## DW IZOL



Unit of measurement	Pieces/Pallet	Consumption	Color/other specifications
5 kg / bucket	60 pcs / pallet	1 kg/m <sup>2</sup>	Grey
15 kg / bucket	36 pcs / pallet		



#### DW IZOL

Elastic liquid waterproofing membrane.

#### DESCRIPTION

DW IZOL is a ready to use product, which is applied with brush or roller. After it gets dried, it creates a very elastic membrane, which is impervious from water and allows its evaporation.

#### AREA OF APPLICATION

DW IZOL is ideal to waterproof surfaces such as balconies, restrooms, etc., before laying ceramic tiles. It is suitable for all types of wall or floor surfaces constructed with concrete, gypsum tiles, etc. this product cannot be applied in surfaces where there is water pressure.

#### MANNER OF APPLICATION/CONSUMPTION

The support should be clean, free of grease, dust, oils, etc. Cracked parts should be repaired before its application. Prior to the application of DW IZOL, the support is treated with HYDRO PRIMER in a quantity of approximately 200 - 300 g/m<sup>2</sup>, depending on the absorption capacity of the support.

#### APPLICATION

DW IZOL is applied with brush or roller in two layers, only after the HYDRO PRIMER layer is completely dried. The second layer is applied only after the first layer is completely dried. The waterproofing membrane of DW IZOL should be reinforced in the floors' angles and in the joints' spaces by using a fiberglass mesh type 65 g/m<sup>2</sup>. work tools should be cleaned while DW IZOL is still wet. Tiling the ceramic tiles should be made by using an adhesive with elastic qualities, or by using FLEXIT as elasticizer for the adhesive.

#### TECHNICAL DATA

Color	Grey
Density	1.58 Kg/L
Viscosity	50 000 mPa.s
Minimum application temperature	+5°C
Drying time	6 hours in 20°C
Trafficability	after 6 hours in 20°C
Waterproofing	2 atm according to DIN 1048
Setting tile adhesive	After about 6 hours at 20°C

#### SHELF-LIFE STORAGE

18 months from manufacture date, if stored in its original packaging, protected from frost and direct exposure to the sun.



## TABLE OF WATERPROOFS

PRODUCTS	INDOOR ENVIRONMENTS					OUTDOOR ENVIRONMENTS							
	Restrooms and humid environments	Tile over tile	Reservoirs	Basements	Negative pressure	Foundations	Exploitable terraces and balconies	Unexploitable terraces and balconies	Pools	Bridges	Tunnels	Environments under the presence of chemicals	Plaster facades
<b>Legend:</b>													
<span style="border: 1px solid black; border-radius: 50%; padding: 2px;">○</span> Recommended by DAST													
<span style="border: 1px solid black; border-radius: 50%; padding: 2px;">○</span> Appropriate													
● more appropriate													
<b>Hidrostop</b>													
<b>Monolit</b>	○		○										
<b>Monoflex</b>	○		○				○						
<b>Izotrate</b>			○			○							
<b>Izoflex</b>	●	○	○	○		○	○		○				
<b>Izoelastic</b>	●	○	●	○	○	○	○	○					
<b>DW Izol</b>	○	○											
<b>Izoelastic Liquid</b>								○					
<b>Izoelastic PU</b>			●					●					
<b>Epoxy Bitum Z 887</b>										○	○	○	
<b>Izogrand Ultra 880</b>										○	○	○	
<b>Sealex Floor Protect</b>										○			
<b>Sealex Fasade Protect</b>													○

### 3.4 QUICK DRYING WATERPROOF FOR WATER LEAK

## HIDROSTOP



Unit of measurement	Pieces/box	Color/other specifications
3 kg	10 pcs/box	Grey



#### HIDROSTOP

Fast drying waterproof, to stop leaks.

#### DESCRIPTION

HIDROSTOP is a fast drying waterproof, after contact with water.

#### AREA OF APPLICATION

HIDROSTOP is used to stop water leaks, thanks to its fast drying and adhesion qualities.

#### MANNER OF APPLICATION/CONSUMPTION

##### 1.Preparation of support:

The support should be clean, and wet. Clean any type of residues, oils, paints.

##### 2.APPLICATION

Give the part where water leaks a conical shape in a 2 – 3 cm depth. HIDROSTOP should be gradually added to water and stirred immediately until it creates a sloppy mixture. The obtained mixture is compressed into the leaking spot and is kept there for approximately 2 minutes, until it gets solid.

#### CONSUMPTION

Approximately 1.6 Kg HIDROSTOP is needed for the preparation of a volume of 1 L.

- Application temperature should be between +5°C and +35°C.
- In cases where the spot that will be filled has a large volume, HIDROSTOP can be mixed with a quantity of sand from the ratio of 1: 1 in volume to the ratio of 1: 3 in volume. Thus the time of workability gets increased. Another way to increase the working time is by adding a quantity of ordinary cement.
- It is recommended to use gloves during the application.



#### TECHNICAL DATA

Form	Powder
Color	Grey
Amount of water	30%
Density of dry mortar	1,05 ± 0,05 Kg/lit
Compression strength	40,00 ± 2,00 N/mm <sup>2</sup>
Flexion strength	7,00 ± 0,50 N/mm <sup>2</sup>
Pot life	2 - 3 min in +20°C

#### SHELF-LIFE STORAGE

12 months from production date, if stored in original and unopened packaging, in areas protected from the sun and frost.





#### IZOBAND S10

Insulating band for the angles of walls and floors

##### Unit of measurement

10ml /box



#### IZOBAND EX 90

Waterproof element to cover the angles of walls

##### Unit of measurement

50/pcs box



#### IZOBAND IN 90

Waterproof element to cover the angles of walls

##### Unit of measurement

50/pcs box



### 3.5 ELASTIC TAPE FOR THE WATERPROOFING



#### IZOTUBE

Reinforcing element used during the process of waterproofing for exits of hydraulic installations, water tubes, etc, from the wall

Unit of measurement
10 pcs/box



#### IZODRAIN

Reinforcing element used during the process of waterproofing for drains

Unit of measurement
10 pcs/box



#### IZOCARPET

Carpet that reinforces the waterproof of floors and walls

Unit of measurement
50 mL/roller



#### IZOTAPE ULTRA S 20 + DW 9000 EPO-UNI

Insulating band with a 20cm depth for dilatation joints insulation, which is used together with DW 9000 EPO-UNI adhesive

Unit of measurement
10 mL/box





#### IZOTAPE ULTRA S 30 + DW 9000 EPO-UNI

Insulating band with a 30cm depth for dilatation joints insulation, which is used together with DW 9000 EPO-UNI adhesive

##### Unit of measurement

10 mL/box



#### IZOTAPE U 200

Rubber-shaped material, with expansive properties for waterproofs in concrete joints

##### Unit of measurement

10 mL/box



#### IZOTAPE FU 280

Rubber-shaped material, with tensile properties for waterproofs in concrete joints

##### Unit of measurement

10 mL/box



#### IZOTAPE XB 22

Rubber-shaped material, with tensile properties for waterproofs in objects joints

##### Unit of measurement

10 mL/box



## 3.6 CONCRETE WATERPROOFER

### IZOTRATE



Unit of measurement	Pieces/Pallet	Consumption	Color/other specifications
20 kg/sack	54 pcs/pallet	0.75kg/m <sup>2</sup>	Grey



#### IZOTRATE

Is a cement-based mortar. It is applied with a brush. It contains active chemicals, which when in contact with moisture and lime and lime hydroxide, enter a reaction, thus forming insoluble crystals. These crystals block the capillaries and cracks formed inside as a consequence of concrete shrinkages and swellings, thus preventing further absorption of water. IZOTRATE offers a number of advantages, among which we mention:

- Stays permanently active, thus permanently protecting the construction from the presence of water.
- Connects perfectly with the concrete, thus giving it the desirable qualities.
- Capable of closing cracks up to 400 micron, even if they appear after the application.
- In cases when the concrete surface or waterproof coat is damaged, there is no impact on the waterproofing of construction.
- Protects reinforced constructions with steel from corrosion.
- Is used to waterproof water deposits or surfaces that are in direct contact with water.
- Does not affect the chemical processes of other elements present in the concrete.
- Is easily used and has low costs.
- This product is classified as a coat for concrete protection.

#### AREA OF APPLICATION

It waterproofs concrete surfaces in cases of moisture presence and water pressure. IZOTRATE is suitable for waterproofing basements, manholes, wastewater deposits, and especially foundations.

#### PREPARATION OF THE SUPPORT

The support must be clean, free of dust and oils coats. For very smooth surfaces it is necessary to treat them beforehand with pressured water so as to roughen them. In places where you notice water leak, you should isolate them first.



#### IZOTRATE

In cases of obvious cracks in the concrete surface, first close them and then clean the surface. If there are wire residues sticking out from the surface where the product will be applied, they must be cut from 2 to 4 cm in depth, and the product will be applied only after the opened hole is closed.

#### APPLICATION

IZOTRATE is gradually added to the required quantity of water by stirring it continuously until a viscous mixture, appropriate for brush application, is formed. The surface where the product will be applied should be slightly wet but it should not have any quantities of stagnant water. The product should be applied in two layers which should not be thicker than 1 mm, so as to avoid possible cracks. The second layer is applied as long as the first layer is still wet. In cases when the first layer is completely dried, you should water the surface before the application of the next layer. Furthermore, after you finish the application, water the surface for the next 2 – 3 days. This way, the waterproof coat remains wet, thus gradually reinforcing its qualities. The watering of the surface should be made gradually after IZOTRATE has started to harden. This is made so as to avoid damages. Usually, the surface is watered 2 – 3 times a day. The final surface should be protected from rain and frost.



#### TECHNICAL DATA

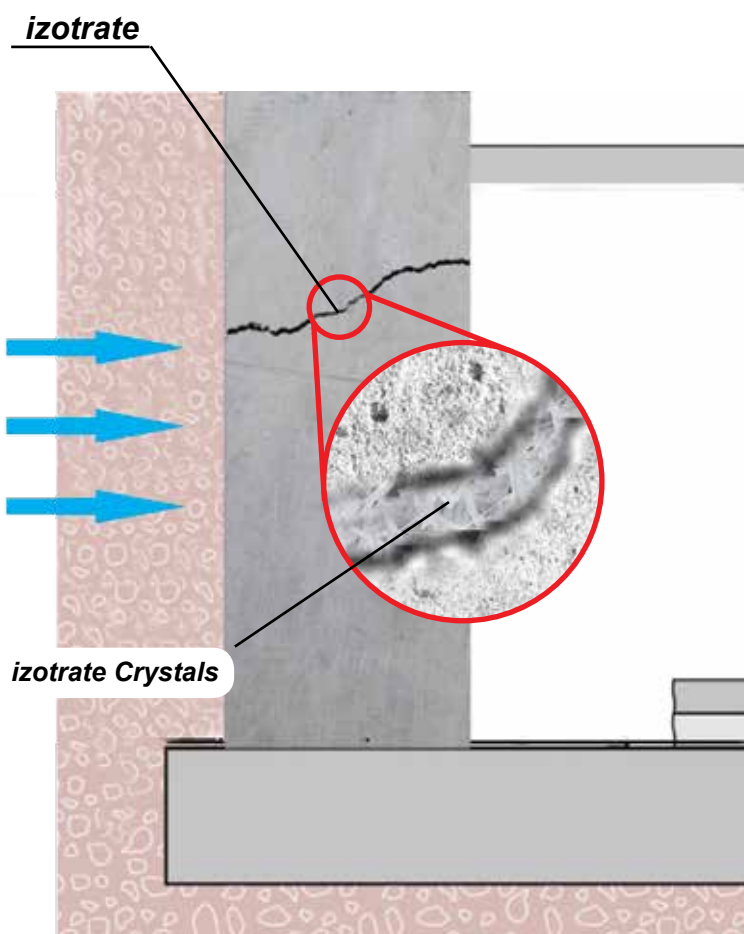
Form	Powder
Color	Grey
Mixing density	1.3 gr/cm <sup>3</sup>
Combustibility	Incombustible
Mixing ratio	
By spatula	6-7 L of water for 20 kg Izotrate
By brush	7-8 L of water for 20 kg Izotrate
pH of the mixture	12
Pot life	3-4 hours
Application time between two layers	after 1.5 hours at 23°C
Maximal thickness per layer	1 mm
Resistance in positive pressure	7 atm according to DIN 1048

#### FINAL DATA

Adhesive ability in concrete	≥ 3 N/mm <sup>2</sup>
Resistance to moisture	Very good
Resistance to amortization	Very good
Permeability	Waterproof

#### STORAGE AND LONGEVITY

12 months from production date if stored in its original packaging, protected from frost and direct exposure to the sun.



### 3.6 CONCRETE WATERPROOFER



Unit of measurement	Pieces/Pallet	Consumption	Color/other specifications
20 kg/sack	54 pcs/pallet	2-3 kg/m <sup>2</sup>	Grey



#### IZOCRYSTAL

Is a concrete waterproofing additive in powder form, added during the preparation of concrete, thus creating an insoluble and crystalline composition.

#### CHARACTERISTICS

IZOCRYSTAL is a concrete waterproofing additive in powder form, added during the preparation of concrete, thus creating an insoluble and crystalline composition. It improves impermeability from water, without affecting the permeability of concrete vapors. It remains active all the time and also accepts positive and negative hydrostatic pressures. Suitable to waterproof foundations, basements, reservoirs, septic tanks, swimming pools etc. (It is classified with sign CE as concrete mixture, water resistant, according to standard EN 934 - 2:T9)

#### AREA OF APPLICATION

IZOCRYSTAL is a product necessary to produce concrete with high mechanical properties, concrete that is not plastered (for decorative purposes), concrete that is suitable to be casted with pump, etc. it is also used for the construction of concrete elements that have a continuous or temporary presence of water, such as: foundations, basements, reservoirs, tunnels, channels, wastewater treatment plants, pools, etc.

#### MANNER OF APPLICATION

##### Izocrystal can be added:

In the first phases of mixture, during concrete production; in the ready-to-use concrete, a short time before its usage. In this case, the concrete mixer should rotate for 4-5 minutes in order to have a uniform distribution of IZOCRYSTAL in the amount of concrete.

#### DOSAGE

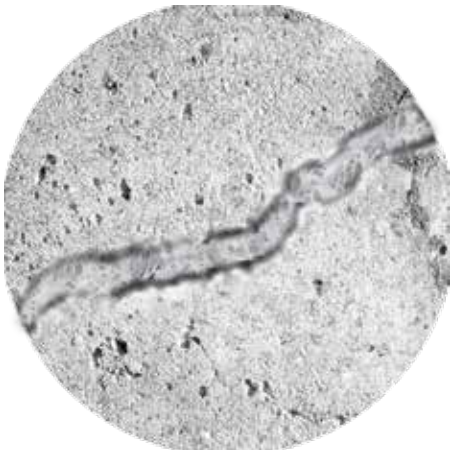
0.5 - 1 Kg per 100 Kg of cement

#### PACKAGING

The product is packaged in sacks of 20 kg.

#### SHELF-LIFE STORAGE

At least 12 months from date of production, in places protected by frost.



### BETOZOL



Unit of measurement	Pieces/Pallet	Consumption	Color/other specifications
1 kg/plastic can	12 pcs/box	300-500 gr / 100 kg cement	white
5 kg/plastic can	4 pcs/box		
10 kg/plastic can	60 pcs/box		
1000 kg/IBC	IBC		



#### BETOZOL

Waterproofing additive for concrete

#### DESCRIPTION

BETOZOL is a liquid additive which gives concrete waterproof quality. The product reacts chemically with the lime that is formed from hydration of cement and creates salts which, on the one side, block capillary pores but on the other side, give concrete hydrophobic properties. An important quality of BETOZOL is that, compared to other additives of its category, it does not cause reduction of the final resistances of concrete. (According to table 9 of standard ELOT EN 934 - 2 the reduction of resistance in compression is allowed up to the scale of 15%).

#### AREA OF APPLICATION

BETOZOL is used to improve concrete resistance from water absorption, and also to improve impermeability of concrete from water in cases of foundations, basements walls, water reservoirs, pools, wells, tunnels, etc., the product can be added during the preparation of concrete or before concrete casting.

- The waterproof of concrete mixture eliminates the risk of frost damages and prevents formation of stains from creation of salts.
- In engineering projects such as highways, bridges, hydraulic platforms, etc., it increases considerably concrete resistance from salts that were used as antifreeze.
- Creation of chemical compounds that block pores does not prevent ventilation of the structure.
- In accordance with standard ELOT EN 934 - 2:2001, Table 9.

#### DOSAGE

Allowed dose: 0.2 - 0.4% in report to the weight of cement

Recommended dosage: 0.3% in report to the weight of cement

#### SHELF-LIFE STORAGE

18 months in original and unopened packaging, in temperatures between +5°C and +30°C. The material must be protected from direct radiation of sun and from frost.

#### Concrete impermeability

Water passing through concrete is a multifunctional problem that is analyzed in two steps:

- a) The capillary absorption of water that is in simple contact (without pressure) with concrete.
- b) Pressured water penetration into concrete.

Standard EN 934-2: 2001 requires reduction of water absorption into concrete to the extent of  $\geq 40\%$  by the addition of a waterproofing additive.

#### TECHNICAL DATA

Color	White
Density	1,00 Kg/l
pH	$\leq 10,1$
The presence of soluble chloride	does not contain chlorures
The content of bases	$\leq 0,2\%$ in weight

### 3.7 WATERPROOFER WITH HIGH RESISTANCE FOR HEAVY INDUSTRY, HYDROPOWERS, ETC.

## EPOXY BITUM Z 877



Unit of measurement	Pieces/Pallet	Consumption	Color/other specifications
5 kg/bucket	60 pcs/pallet	1-2 kg/m <sup>2</sup>	Grey
15 kg/bucket	36 pcs/pallet		



#### EPOXY BITUM Z 877

Bitumen-based epoxy waterproof, with good adhesive properties and resistant to chemicals.

#### CHARACTERISTICS

EPOXY BITUM Z 877 is a bitumen-based epoxy, waterproof, coating material.

- It provides a high waterproofing and elasticity.
- It is characterized by very good adhesive qualities in all cement-based surfaces and also in surfaces made of wooden or metal bricks and on every other type of waterproofing material. It can be also used in unlevelled layers.
- It provides high flexibility, thus avoiding the formation of cracks and crevices that can be created over time.
- Gives resistance to chemicals.

#### AREA OF APPLICATION

EPOXY BITUM Z 877 is used as a waterproof in terraces, balconies, walls, and humid places. It is easily applied, thus creating a waterproofing membrane with high elasticity and mechanical resistance, without creating cracks and shrinkage. It is also easily applicable in difficult areas, such as angles, junctions of different materials that create joints, etc. EPOXY BITUM Z 877 is recommended to be used for the waterproof of underground basements and of places where a high resistance to chemicals is required.

#### APPLICATION PROCEDURE

##### Preparation of the surface

The surface where the product will be applied must be free of powder, paints, etc. In order to achieve a better waterproof, it is recommended to treat the surface which will be waterproofed with EPOXY BITUM Z 877 beforehand with RESIN RE 1800 primer.

#### APPLICATION

EPOXY BITUM Z 877 is applied in two layers, with roller or brush, only after the primer is completely dried. Consumption is approximately 1-2 Kg/m<sup>2</sup>, depending on the surface which will be waterproofed. The second layer should be applied only after the first layer is completely dried. Pay attention to the application of the second layer which should be made in a cross form onto the first layer.

#### CONSUMPTION

Consumption is approximately 1-2 kg/m<sup>2</sup>

#### SHELF-LIFE STORAGE

It is stored in environments protected by frost, up to 18 months after manufacture date.

#### PACKAGING

In buckets of 5 Kg and 15 Kg.



### 3.7 WATERPROOFER WITH HIGH RESISTANCE FOR HEAVY INDUSTRY, HYDROPOWERS, ETC.

## IZOGRAND ULTRA 880



Unit of measurement	Pieces/Pallet	Consumption	Color/other specifications
10 kg/bucket	60 pcs/pallet	0.5-1 kg/m <sup>2</sup>	White



#### IZOGRAND ULTRA 880

Bi-component waterproof, with good adhesive properties and resistant to chemicals.

#### CHARACTERISTICS

IZOGRAND ULTRA 880 is a bi-component, waterproof, coating material.

- It provides a high waterproof and elasticity.
- It is characterized by very good adhesive qualities in all cement-based surfaces and also in surfaces made of wooden or metal bricks and on every other type of waterproofing material. It can also be used in unlevelled layers.
- It provides high flexibility, thus avoiding the formation of cracks and crevices that can be created over time.
- Resistance to chemicals.

#### AREA OF APPLICATION

IZOGRAND ULTRA 880 is used as a waterproof in terraces, balconies, walls, and humid places. It is also applied to waterproof public works, such as tunnel, hydropower, etc. It is easily applied and creates a waterproofing membrane with high elasticity and mechanical resistance, without creating cracks and shrinkage. It is also easily applicable in difficult areas, such as angles, junctions of different materials that create joints, etc. IZOGRAND ULTRA 880 is recommended to be used for the waterproof of underground basements and of places where a high resistance to chemicals is required.

#### APPLICATION PROCEDURE

##### Preparation of the surface

The surface where the product will be applied must be free of powder, paints, etc. In order to achieve a better waterproof, it is recommended to treat the surface beforehand with RESIN RE 1800 primer and then the waterproof, IZOGRAND ULTRA 880.

#### APPLICATION

IZOGRAND ULTRA 880 is applied in two layers, with roller or brush, only after the primer is completely dried. Consumption is approximately 1 -2 Kg/m<sup>2</sup>, depending on the surface which will be waterproofed. The



second layer should be applied only after the first layer is completely dried. Pay attention to the application of the second layer, which should be made in a cross shape onto the first layer.

#### CONSUMPTION

Consumption is approximately 1-2 kg/m<sup>2</sup>

#### SHELF-LIFE STORAGE

It is stored in environments protected by frost, up to 18 months after manufacture date.

#### PACKAGING

In buckets of 5 Kg and 15 Kg.

#### TECHNICAL DATA

	Component A	Component B
Color	Grey	Yellow
Form	Liquid	Liquid
Density	1.05 Kg/L	1.15 Kg/L
Viscosity	1000 mPa.s	1000 mPa.s
Mixing ratio	1	1
Adhesion strength	20 N/mm <sup>2</sup>	
Elasticity	400%	
Elasticity module	5 MPa	
Vitrification temperature	-50°C	



## 3.8 WATERPROOFER FOR FACADES AND FINISHED FLOORS

### SEALEX FACADE PROTECT



Unit of measurement	Pieces/Pallet	Consumption	Color/other specifications
1 kg/plastic can	12 pcs/box	0.2-0.3 kg/m <sup>2</sup>	Transparent
5 kg/plastic can	4 pcs/box		
10 kg/plastic can	60 pcs/pallet		



#### SEALEX FACADE PROTECT

Silicone-based material, which contains solvent.

#### CHARACTERISTICS

Silicone-based, hydro-resistant material, which contains solvent. It retains its transparency and does not create "skin", thanks to its great permeation (micro technology), thus ensuring substrate airing. It accentuates the natural colors of stone, by giving the view of being wet. It protects the bonding mortar of stones from moisture and corrosion in the future, from the impact of frost and water absorption, resulting in the flow of salts. It gives immediate and long-lasting protection.

#### AREA OF APPLICATION

SEALEX FASADE PROTECT is suitable to be used in every type of coating for natural and artificial stones, in outdoor and indoor wall surfaces. Sprinkling the stones, mainly, does not allow their pollution, thus always protecting them naturally. Plaster or concrete masonries that are coated with two layers of SEALEX FASADE PROTECT, and are not followed by paint coating, are protected completely from moisture absorption for many years, thus substituting the primer and allowing its coating in the coming years. For outdoor tile floors that are near gardens, it is recommended to water them beforehand, in order to ensure the protection of stones from moisture.

#### MANNER OF APPLICATION

##### 1. Preparation of surface

Remove construction debris or other contaminants, such as moss and mold, from the natural stones in the substrates. Use FUGA CLEAN to clean the stones

##### 2. Application

SEALEX FASADE PROTECT is applied as it is, in prepared and dried surfaces, with brush, roller, or spray. It is applied in one layer until saturation or in two consecutive layers if the surface is porous. The second layer is applied as long as the first layer is still wet.

#### TECHNICAL FEATURES

Form - color	transparent -liquid
Specific weight	0,77±0,04 Kg/lt
Gloss	Mat
Application temperature	From +5°C to +35°C
Possibility of evaporation substrate	At least 80% of the beginner
The rate of water absorption	W ≤0,5 Kg/m <sup>2</sup> v h
Coating with paint	After 3 months
Coating with paint	After 3 months 3 hours
Trafficable	After 18 h at +23°C
Final resistance	After 7 days at +23°C
Adhesive strength	> 4 N/mm <sup>2</sup>

#### CONSUMPTION

150-300 ml/m<sup>2</sup>, depending on surface absorption.

#### SHELF-LIFE STORAGE

It is stored in environments protected by frost, up to 18 months after manufacture date.



## 3.8 WATERPROOFER FOR FACADES AND FINISHED FLOORS

### SEALEX FLOOR PROTECT



Unit of measurement	Pieces/Pallet	Consumption	Color/other specifications
1 kg/plastic can	12 pcs/box	0.3-0.5 kg/m <sup>2</sup>	Transparent
5 kg/plastic can	4 pcs/box		
10 kg/plastic can	60 pcs/pallet		



#### SEALEX FLOOR PROTECT

Silicone-based material, which does not contains solvents.

#### CHARACTERISTICS

Silicone-based, hydro-resistant material, which contains solvent. It retains its transparency and does not create "skin", thanks to its great permeation (micro technology), thus ensuring substrate airing. It accentuates the natural colors of stone, by giving the view of being wet. It protects the bonding mortar of stones from moisture and corrosion in the future, from the impact of frost and water absorption, resulting in the flow of salts. It gives immediate and long-lasting protection.

#### AREA OF APPLCIATION

The anti-penetrative product, SEALEX FLOOR PROTECT is suitable to be used in every type of coating for natural and artificial stones, in outdoor and indoor wall surfaces. Sprinkling the stones, mainly, does not allow their pollution, thus always protecting them naturally. Plaster or concrete masonries that are coated with two layers of SEALEX FLOOR PROTECT, and are not followed by paint coating, are protected completely from moisture absorption for many years, thus substituting the primer and allowing its coating in the coming years. For outdoor tile floors that are near gardens, it is recommended to water them beforehand, in order to ensure the protection of stones from moisture.

#### MANNER OF APPLCIATION

##### 1. Preparation of surface

Remove construction debris or other contaminants, such as moss and mold, from the natural stones in the substrates. Use FUGA CLEAN to clean the stones



#### 2. Application

SEALEX FLOOR PROTECT is applied as it is, in prepared and dried surfaces, with brush, roller, or spray. It is applied in one layer until saturation or in two consecutive layers if the surface is porous. The second layer is applied as long as the first layer is still wet.

#### TECHNICAL FEATURES

Form - Color	Transparent- liquid
Specific weight	0,77±0,04 Kg/lt
Gloss	Mat
Application temperature	From +5°C to +35°C
Possibility of evaporation substrate	At least 80% of the beginner
The rate of water absorption	W ≤0,5 Kg/m <sup>2</sup> v h

#### CONSUMPTION

150 - 300 ml/m<sup>2</sup>, depending on surface absorption.

#### SHELF-LIFE STORAGE

It is stored in environments protected by frost, up to 18 months after manufacture date.





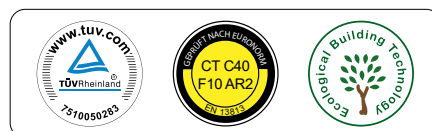
## **04 - SPORTS, INDUSTRIAL AND SIMPLE FLOORS**

## 4.1 FLOOR LEVELER

### GRANDFLOOR 8.0



Unit of measurement	Pieces/Pallet	Consumption	Color/other specifications
25 kg/sack	54 pcs/pallet	1.5 kg/m <sup>2</sup>	Grey



#### GRANDFLOOR 8.0

Floor filler with high content of cement and eased aggregates.

#### DESCRIPTION

GRANDFLOOR 8.0 is a cement- based floor filler, with modified additives used for paving and leveling the floor. It is classified as CT - C40 - F10 - AR2 according to Food Standard EN 13813.

#### AREA OF APPLICATION

•It is used to prepare smooth surfaces or layers prior to putting materials such as: ceramic tiles, parquets or self-levelers, etc.

#### MANNER OF PREPARATION

##### 1. Preparation of the support

Support should be clean, free of dust presence, loose parts, oils, varnishes, etc. 8.0 GRANDFLOOR product can be treaded on 4 days after application.

##### 2. Manner of application

8.0 GRANDFLOOR is gradually added in a quantity of water about 5.5 to 6.0 L under continuous stirring until a homogeneous and fluid mass is formed. The mixture is left to settle for 3 minutes, and then is stirred again. 8.0 GRANDFLOOR is cast in a single layer on the surface, in the desired thickness. Application temperature should be between +5°C and +35°C.

#### CONSUMPTION

Approx. 1.65 kg/m<sup>2</sup> per mm layer thickness.

#### PACKAGING

GRANDFLOOR 8.0 is packed in sacks of 25 Kg.

#### SHELF-LIFE STORAGE

12 months from manufacture date, if stored in its original and unopened packaging. Protect it from direct exposure to the sun and from frost.

#### TECHNICAL DATA

Form	Powder
Color	Grey
Amount of water for hydration	5,5–6,0 l/25 kg bag
Volumetric weight of the powder product	1.40 ±0.10 kg/l
Volume weight of fresh mortar	2,10 ±0,20 kg/l
Compression strength	40.00 ±3.50 N/mm <sup>2</sup>
Flexural strength	10.00 ±1.00 N/mm <sup>2</sup>
Adhesion strength	>2,0 N/mm <sup>2</sup>
Contraction	0,29 0,10 mm/m
Pot life of hydrated product	45-60 min at +20°C



## 4.2 FLOOR FLATTENING

### FLATEX



Unit of measurement	Pieces/Pallet	Consumption	Color/other specifications
25 kg/sack	54 pcs/pallet	1.5 kg/m <sup>2</sup> /mm	Grey



Cement-based, leveling mortar, for outdoor and indoor environments.

#### TECHNICAL FEATURES

- Cement-based mortar, with sand of selected granulometry and modified polymers.
- Serves to create a flat layer for the application of waterproofs and adhesives.

#### AREA OF APPLICATION

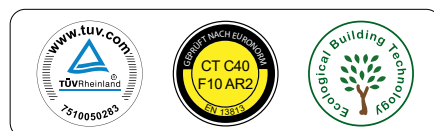
It is used to level indoor and outdoor supports, such as: to level pools before making them waterproof, and also other supports before the application of tile adhesives. During the product application, the temperature of the environment should be from +5°C up to +35°C.

#### SUPPORT PREPARATION

The support where the material will be applied should be dry, clean, uniform, absorbent and stable. There should not be external residues, such as: oils, varnishes, petroleum, etc.

#### MANNER OF PRODUCT APPLICATION

The product is applied manually through a screed. When the product is applied through a pump, be attentive about the consistency of the processing and do not mix it with other materials.



#### TECHNICAL DATA (AT 23°C AND 50% U.R)

Form	Powder
Color	Grey
Shelf-life storage	12 months in original packing in dry environments
Combustibility	incombustible
Density	1.4 kg/dm <sup>3</sup>
Application temperature	from +5°C to +35°C
Opening time	>30 min
Support temperature	from +5°C to +25°C
Working temperature	from +5°C to +35°C
Trafficable	after 4-5 hours
The necessary time to pave the surface	≥ 2 days

#### FINAL DATA

Resistance to flexion (after 28 days) according to EN 1015-11	> 4 N/mm <sup>2</sup>
Resistance to compression (after 28 days) according to EN 1015-11	> 35 N/mm <sup>2</sup>

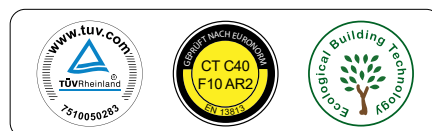


## 4.3 CEMENT BASE SELF LEVELING

### TECNOFLOOR 10



Unit of measurement	Pieces/Pallet	Consumption	Color/other specifications
25 kg/sack	54 pcs/pallet	1.4 kg/m <sup>2</sup> /mm	Grey



#### TECNOFLOOR 10

Self-leveler with high content of cement and modified additives.

#### DESCRIPTION

TECNOFLOOR 10 is a cement-based self-leveler, with modified additives, which is used to lay and level floors. It is classified as CT - C40 - F10 - AR2 according to EN 13813 standard.

#### AREA OF APPLICATION

- It is used to prepare smooth surfaces or layers prior to the application of materials such as: ceramic tiles, parquets, etc.
- It is also used as a final layer for foundations, storehouses, lofts, etc.

#### MANNER OF PREPARATION

##### 1. Support preparation

The support should be clean, free of dust, loose particles, oils, varnishes, etc. First, treat the support with the acrylic primer HYDROPRIMER. TECNOFLOOR 10 product is applied after complete drainage of the primer, approximately two hours after the application of HYDROPRIMER. Primer consumption: 200 - 300g/m<sup>2</sup>.

#### 2. Manner of application

TECNOFLOOR 10 is gradually added in a quantity of water about 5,0 - 5,5L, by continuously stirring it, until a homogeneous and fluid mixture is formed. The mixture is left to settle for 3 minutes, and then is stirred again. TECNOFLOOR 10 is cast in a single layer on the surface which has been treated with primer beforehand, until the desired thickness is achieved. Once the product is leveled, run a toothed roller onto it in order to take out the air within the formed mixture. Application temperature should be between +5°C and +35°C.

#### CONSUMPTION

Approx. 1.65 kg/m<sup>2</sup> per mm layer thickness.

#### PACKAGING

TECNOFLOOR 10 is packed in sacks of 25 Kg.

#### SHELF-LIFE STORAGE

12 months from manufacture date if stored in its original and unopened packaging. Protect it from direct exposure to the sun and from frost.



#### TECHNICAL DATA

Form	Powder
Color	Grey
The amount of water for hydration	5,0-5,5 l / 25 kg bag
Volumetric weight of the powder product	1,40 ±0.10 kg/l
Volume weight of fresh mortar	2,10 ±0,20 kg/l
Compression strength	40.00 ±3.50 N/mm <sup>2</sup>
Flexural strength	10.00 ± 1.00 N/mm <sup>2</sup>
Adhesion strength	> 2.0 N/mm <sup>2</sup>
Shrinkage	0,29 ±0,10 mm/m
Pot life of hydrated product	45-60 min at +20°C

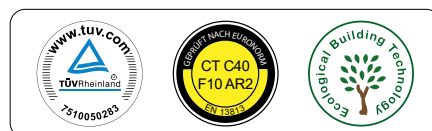


## 4.3 CEMENT BASE SELF LEVELING

### TECNOFLOOR 30



Unit of measurement	Pieces/Pallet	Consumption	Color/other specifications
25 kg/sack	54 pcs/pallet	1.5 kg/m <sup>2</sup> /mm	Grey



#### TECNOFLOOR 30

Self-leveler with high content of cement and modified additives.

#### DESCRIPTION

TECNOFLOOR 30 is a cement-based self-leveler, with modified additives, which is used to lay and level floors. It is classified as CT - C40 - F10 - AR2 according to EN 13813 standard.

#### AREA OF APPLICATION

- It is used to prepare smooth surfaces or layers prior to the application of materials such as: ceramic tiles, parquets, etc.
- It is also used as a final layer for foundations, storehouses, lofts, etc.

#### MANNER OF PREPARATION

##### 1. Support preparation:

The support should be clean, free of dust, loose particles, oils, varnishes, etc. First, treat the support with the acrylic primer HYDROPRIMER. TECNOFLOOR 30 product is applied after complete drainage of the primer, approximately two hours after the application of HYDROPRIMER. Primer consumption: 200 - 300g/m<sup>2</sup>.

##### 2. Manner of application:

TECNOFLOOR 30 is gradually added in a quantity of water about 6,0 - 6,5L, by continuously stirring it, until a homogeneous and fluid mixture is formed. The mixture is left to settle for 3 minutes, and then is stirred again. TECNOFLOOR 30 is cast in a single layer on the surface which has been treated with primer beforehand, until the desired thickness is achieved. Once the product is leveled, run a toothed roller onto it in order to take out the air within the formed mixture. Application temperature should be between +5°C and +35°C.

#### CONSUMPTION

Approx. 1.5 kg/m<sup>2</sup> for mm layer thickness.

#### PACKAGING

TECNOFLOOR 30 is packed in sacks of 25 Kg.

#### SHELF-LIFE STORAGE

12 months from manufacture date if stored in its original and unopened packaging. Protect it from direct exposure to the sun and from frost.



#### TECHNICAL DATA

Form	Powder
Color	Grey
The amount of water for hydration	5,5-6,0 l / 25 kg bag
Volumetric weight of the powder product	1,40 ±0.10 kg/l
Volume weight of fresh mortar	2,10 ±0,20 kg/l
Compression strength	40.00 ±3.50 N/mm <sup>2</sup>
Flexural strength	10.00 ± 1.00 N/mm <sup>2</sup>
Adhesion strength	> 2.0 N/mm <sup>2</sup>
Shrinkage	0,29 ±0,10 mm/m
Pot life of hydrated product	45-60 min at +20°C

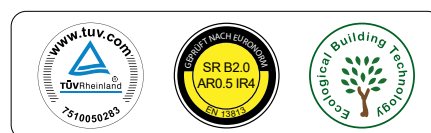


## 4.4 EPOXY BASE SELF LEVELING

### EPO-FLOOR EC 0.3



Unit of measurement	Pieces/Pallet	Consumption	Color/other specifications
25 kg/sack	54 pcs/pallet	1.5 kg/m <sup>2</sup> /mm	Grey
5 kg/bucket	36 pcs/pallet		
1 kg/bucket	12 pcs/box		



#### EPOFLOOR EC 0.3

Epoxy-based, three-component self-leveler.

#### DESCRIPTION

EPOFLOOR EC 0.3 is a leveling, epoxy-based resins product, and free of solvents. It offers the following advantages:

- High mechanical resistance.
- Very good adhesion with the area where it is applied
- High resistance to moisture.
- It has excellent leveling qualities.
- No corrosive effect.

It is classified as SR - B2,0 - AR0,5 - IR4 according to EN 13813.

#### AREA OF APPLICATION

EPOFLOOR EC 03 is used as a leveling layer in cement-based floors, to give them high mechanical and chemical resistance.

It is suitable to be applied in industrial areas, storehouses, parking lots, supermarkets, laboratories, hotels, garages, petrol stations, and in areas with heavy traffic. It is also suitable for direct contact with food products, according to the legislation W - 347, ISO 8467.

#### INSTRUCTIONS FOR USE

##### 1. Surface

Surface where the product will be applied should be:

- Stable and dry or slightly moist, free of water presence
- Clean, free of materials that prevent adhesion, such as dust, loose particles, fats, etc.
- Protected against moisture.

##### 2. Priming

You should apply EPOXY PRIMER W 4000 primer on the surface. Consumption: 200-300 g/m<sup>2</sup>. Once the primer is dried, existing damages, such as cracks and holes should be filled by using EPOFLOOR EC 0.3 (A+B+C) mixed with quartz sand with granulometry 0 – 0.3 mm. EPOFLOOR EC 03 should be applied 24 hours after the application of primer.

#### 2. Mixing EPOFLOOR EC 0.3

Components A and B are packed in predetermined mixing proportions. First, component A should be stirred very well in its container. Then, the entire quantity of component B should be added to component A. The mixing the two components should continue for about 30 seconds, with a low- speed mixer (300 rpm). It is important to stir well near the sides and bottom of the bucket, in order to achieve a uniform spreading of the solidifier. Stirring is done through a low- speed mixer, and it continues until the mixture becomes completely uniform (about 3 minutes). Following that, add gradually quartz sand with granulometry 0 – 0.4 mm under continuous stirring, until it reaches the report 1:2 in weight, and until an epoxy mortar mixture is formed.

#### 3. Manner of application – Consumption:

Depending on the final surface, there are two application manners:

##### a) Smooth final surface:

The epoxy mixture is poured on the floor in a thickness of 2 – 3 mm and is opened by using a notched screed. Consumption of EPOFLOOR EC 0.3(A+B) is 0.6 Kg/m<sup>2</sup> for mm of thickness. Consumption of quartz sand is 1.2 Kg/mm<sup>2</sup> for mm of thickness. The leveling layer should be run onto with a barbed roller so as to remove the air that is left inside the layer, thus avoiding empty spaces.

##### b) Rough final surface:

First, the epoxy mixture is applied in the manner explained in point a) for smooth surfaces. As long as the layer has not solidified yet, you may pour on the product quart sand with granulometry 0 – 0.4 mm or 0.4 – 0.8mm, as you wish.

Consumption of quart sand is approximately 3 Kg/m<sup>2</sup>. Once EPOFLOOR EC 0.3 has solidified, unbound portion of sand is removed using a vacuum. In the end, apply a layer of EPOFLOOR EC 0.3 with roller. Consumption is: 400 – 600 g/m<sup>2</sup>.



#### PACKAGING

EPOFLOOR EC 0.3 is available in 30 Kg (A+B+C) packaging.

#### SHELF-LIFE STORAGE

12 months from manufacture date if stored in its original and unopened packaging. Protect it from direct exposure to the sun and from frost.



#### TECHNICAL DATA

Chemical base (A+B+C)	bi-component epoxy resin and quartz sand
Density (A+B+C)	2,1 Kg/l
The mixing ratio (A:B:C)	5: 1: 6 in weight
Pot life	approx. 40 min in +20°C
Minimal temperature for solidification	+8°C
Trafficable	after 24 hours at +23°C
Final Resistance	after 7 days at +23°C
Resistance to compression	110 N/mm <sup>2</sup> (EN 13892 - 2)
Flexural resistance	62 N/mm <sup>2</sup> (EN 13892 - 2)
Adhesion strength	4 N/mm <sup>2</sup> (breaking point of concrete)
Maximal thickness	3 mm

## 4.4 EPOXY BASE SELF LEVELING

### EPO-FLOOR EC 0.8



Unit of measurement	Pieces/Pallet	Consumption	Color/other specifications
25 kg/sack	54 pcs/pallet	1.5 kg/m <sup>2</sup> /mm	Grey
5 kg/bucket	36 pcs/pallet		
1 kg/bucket	12 pcs/box		



#### EPOFLOOR EC 08

Epoxy-based, three-component self-leveler.

#### DESCRIPTION

EPOFLOOR EC 08 is a leveling, epoxy-based resins product, and free of solvents. It offers the following advantages:

- Excellent mechanical resistance.
- Very good adhesion with the area where it is applied
- High resistance to moisture.
- It has excellent leveling qualities.
- No corrosive effect.

It is classified as SR - B2,0 - AR0,5 - IR4 according to EN 13813..

#### AREA OF APPLICATION

EPOFLOOR EC 08 is used as a leveling layer in cement-based floors, to give them high mechanical and chemical resistance.

It is suitable to be applied in industrial areas, storehouses, parking lots, supermarkets, laboratories, hotels, garages, petrol stations, and in areas with heavy traffic. It is also suitable for direct contact with food products, according to W - 347, ISO 8467 legislation.

#### INSTRUCTIONS FOR USE

##### 1. Surface

Surface where the product will be applied should be:

- Stable and dry, or slightly moist, free of water presence
- Clean, free of materials that prevent adhesion, such as dust, loose particles, fats, etc.
- Protected against moisture.

##### 2. Priming

You should apply EPOXY PRIMER W 4000 primer on the surface. Consumption: 200-300 g/m<sup>2</sup>. Once the primer is dried, existing damages, such as cracks and holes should be filled by using EPOFLOOR EC 08 (A+B+C) mixed with quartz sand with 0.5 – 0.8 mm granulometry. EPOFLOOR EC 08 should be applied 24 hours after the application of primer.

#### 2. Mixing EPOFLOOR EC 0.8

Components A and B are packed in predetermined mixing proportions. First, component A should be stirred very well in its container. Then, the entire quantity of component B should be added to component A. The mixing the two components should continue for about 30 seconds, with a low- speed mixer (300 rpm). It is important to stir well near the sides and bottom of the bucket, in order to achieve a uniform spreading of the solidifier. Stirring is done through a low- speed mixer, and it continues until the mixture becomes completely uniform (about 3 minutes). Following that, add gradually quartz sand with granulometry 0.5 – 0.8 mm under continuous stirring, until it reaches the report 1:2 in weight, and until an epoxy mortar mixture is formed.

#### 3. Manner of application – Consumption:

Depending on the final surface, there are two application manners:

##### a) Smooth final surface:

The epoxy mixture is poured on the floor in a thickness of 2 – 3 mm and is opened by using a notched screed. Consumption of EPOFLOOR EC 0.8(A+B) is 0.6 Kg/m<sup>2</sup> for mm of thickness. Consumption of quartz sand is 1.2 Kg/mm<sup>2</sup> for mm of thickness. The leveling layer should be run onto with a barbed roller so as to remove the air that is left inside the layer, thus avoiding empty spaces.

##### b) Rough final surface:

First, the epoxy mixture is applied in the manner explained in point a) for smooth surfaces. As long as the layer has not solidified yet, you may pour on the product quartz sand with granulometry 0 – 0.4 mm or 0.4 – 0.8mm, as you wish.

Consumption of quartz sand is approximately 3 Kg/m<sup>2</sup>. Once EPOFLOOR EC 0.8 has solidified, the unbound portion of sand is removed using vacuum. In the end, apply a layer of EPOFLOOR EC 0.8 with roller. Consumption is: 400 – 600 g/m<sup>2</sup>.



#### PACKAGING

EPOFLOOR EC 0.8 is available in 30 Kg (A+B+C) packaging.

#### SHELF-LIFE STORAGE

12 months from manufacture date if stored in its original and unopened packaging. Protect it from direct exposure to the sun and from frost.

#### TECHNICAL DATA

Chemical base (A+B+C)	bi-component epoxy resin and quartz sand
Density (A+B+C)	2,1 Kg/l
The mixing ratio (A:B:C)	5: 1: 6 in weight
Pot life	approx. 40 min in +20°C
Minimal temperature for solidification	+8°C
Trafficable	after 24 hours at +23°C
Final Resistance	after 7 days at +23°C
Resistance to compression	110 N/mm <sup>2</sup> (EN 13892 - 2)
Flexural resistance	62 N/mm <sup>2</sup> (EN 13892 - 2)
Adhesion strength	4 N/mm <sup>2</sup> (breaking point of concrete)
Maximal thickness	3 mm



## 4.4 EPOXY BASE SELF LEVELING

### EPOFLOOR FG-8700



Unit of measurement	Pieces/Pallet	Consumption	Color/other specifications
5 kg/bucket 15 kg/bucket	36 pcs/pallet 12 pcs/pallet	1.5 kg/m <sup>2</sup> /mm -	on Request



#### EPOFLOOR FG 8700

Epoxy-based, Two component self-leveler.

#### DESCRIPTION

EPOFLOOR FG – 8700 is a cement-based, and epoxy-based resins, leveling product, and free of solvents. It offers the following advantages:

- Excellent mechanical resistance.
- Very good adhesion with the area where it is applied
- High resistance to moisture.
- It has excellent leveling qualities.
- No corrosive effect.

It is classified as CT - C50 - F10 - AR0,5 according to EN 13813.

#### AREA OF APPLICATION

EPOFLOOR FG – 8700 is used for repairs and leveling in surfaces that will be used for: polyurethane coating, PVC flooring, laminate wood flooring, etc. EPOFLOOR FG – 8700 is applied when the concrete is relatively fresh, in order to create the appropriate surface (at least, with 2mm thickness) for the application of epoxy layers, thus avoiding problems with detachment, etc. it is also suitable as a final layer, in a thickness of 3mm, for smooth surfaces, and to increase the surface's resistance towards mechanical loads.

#### INSTRUCTIONS FOR USE

##### 1. Surface

Surface where the product will be applied should be:

- Stable and dry, or slightly moist, free of water presence
- Clean, free of materials that prevent adhesion, such as dust, loose particles, fats, etc. In very porous or absorbent surfaces, treat them with the water-based epoxy primer EPOXY PRIMER W – 4000 as it is or diluted with water. The primer is applied with brush or roller in one layer.

**Consumption:** 200 - 300 g/m<sup>2</sup>.

Application of EPO - FLOOR FG - 8700 depends on the time when the primer is suitable to be trafficable.

#### MIXING

Components A and B are packed in predetermined mixing proportions. First, component A should be stirred very well in its container then it should be moved to a clean container of approximately 30 liters volume. After that, the entire quantity of component B should be added to component A. The mixing the two components should continue for about 30 seconds, with a low- speed mixer (300 rpm). It is important to stir well near the sides and bottom of the bucket, in order to achieve a uniform spreading of the solidifier.

#### MANNER OF APPLICATION

EPOFLOOR FG – 8700 should be applied at a thickness up to 3 mm using a notched screed. In order to remove air within the self-leveling layer, run a special barbed roller onto the surface. This prevents the formation of bubbles and helps in achieving a uniform thickness.

#### Cleaning of tools

Tools should be cleaned immediately with water after usage. The hardened material can only be removed mechanically.

#### PACKAGING

EPOFLOOR FG - 8700 is available in 5 Kg and 15 kg (A+B) packaging

#### SHELF-LIFE STORAGE

24 months from manufacture date, if stored in its original and unopened packaging. Protect it from direct exposure to the sun and from frost.



#### TECHNICAL DATA

Chemical base (A+B)	bi-component epoxy resin
Density A	1,096 Kg/l
Density B	1,025 Kg/l
Density (A+B)	2,06 Kg/l
The mixing ratio (A:B)	1: 3 of weight
Pot life	approx. 30 min in +20°C
Minimal temperature for solidification	+8°C
Moisture diffusion coefficient	Sd = 0,75 (EN ISO 7783 - 1 / 2)
Trafficability	after 15 hours at +23°C
Final Resistance	after 7 days at +23°C
Resistance to compression	70 N/mm <sup>2</sup> (EN 13892 - 2)
Flexural resistance	20 N/mm <sup>2</sup> (EN 13892 - 2)
Adhesion strength	>4 N/mm <sup>2</sup>
Maximal thickness	3 mm

#### NOTE!

- The product's working time reduces when temperatures rise
- The surface of EPO - FLOOR FG - 8700 after application should be protected from moisture for 24 hours. Moisture can whiten the surface or make it adhesive. Moisture can also damage solidification
- Damaged layers in the parts of surface should be removed by scraping and re-applying the product.
- In cases when the timing between the application of consecutive layers gets longer than predicted or in cases when the old layers need to be coated again, then the surface should be cleaned very well before the application of the new layer.
- After solidification, EPOFLOOR FG 8700 is totally harmless.
- Prior to application, consult the data written at the product's label.

## 4.4 EPOXY BASE SELF LEVELING

### EPOFLOOR UNI-8900



Unit of measurement	Pieces/Pallet	Consumption	Color/other specifications
5 kg/bucket	36 pcs/pallet	1.5 kg/m <sup>2</sup> /mm	Grey/Transparent
15 kg/bucket	12 pcs/pallet	-	



#### EPOFLOOR UNI 8900

Epoxy-based, bi-component self-leveler.

#### DESCRIPTION

EPOFLOOR UNI 8900 is an epoxy-based resin, leveling product, and free of solvents. It offers the following advantages:

- Excellent mechanical resistance.
- Very good adhesion with the area where it is applied
- High resistance to moisture.
- Excellent leveling qualities.
- No corrosive effect.

It is classified as SR - B2,0 - AR0,5 - IR4 according to EN 13813

#### AREA OF APPLICATION

EPOFLOOR UNI 8900 is used as a leveling layer in cement-based surfaces, to give them high mechanical and chemical resistance. It is suitable to be applied in industrial areas, storehouses, parking lots, supermarkets, laboratories, hotels, garages, petrol stations and in areas with heavy traffic is also suitable to be in direct contact with food products, according to W - 347, ISO 8467 legislation.

#### INSTRUCTIONS FOR USE

##### 1. Surface

Surface where the product will be applied should be:

- Stable and dry, or slightly moist, free of water presence
- Clean, free of materials that prevent adhesion, such as dust, loose particles, fats, etc.
- Protected against moisture.

##### 2. Priming

You should apply

EPOXY PRIMER W 4000 primer on the surface. Consumption 200-300 g/m<sup>2</sup>. Once the primer is dried, existing damages, such as cracks and holes should be filled using EPOFLOOR UNI 8900 (A+B). EPOFLOOR UNI 8900 should be applied 24 hours after the application of primer.

#### 2. Mixing EPOFLOOR UNI 8900

Components A and B are packed in predetermined mixing proportions. First, component A should be stirred very well in its container. Then, the entire quantity of component B should be added to component A. The mixing the two components should continue for about 30 seconds, with a low-speed mixer (300 rpm). It is important to stir well near the sides and bottom of the bucket, in order to achieve a uniform spreading of the solidifier. Stirring is done through a low-speed mixer, and it continues until the mixture becomes completely uniform (about 3 minutes).

#### 3. Manner of application – Consumption:

Depending on the final surface, there are two application manners:

##### a) Smooth final surface:

The epoxy mixture is poured on the floor in a thickness of 2–3 mm and is opened by using a notched screed. Consumption of EPOFLOOR UNI 8900(A+B) is 0.6 Kg/m<sup>2</sup> for mm of thickness. Consumption of quartz sand is 1.2 Kg/mm<sup>2</sup> for mm of thickness. The leveling layer should be run onto with a barbed roller so as to remove the air that is left inside the layer, thus avoiding empty spaces.

##### b) Rough final surface:

First, the epoxy mixture is applied in the manner explained in point a) for smooth surfaces. As long as the layer has not solidified yet, you may pour on the product quartz sand with granulometry 0 – 0.4 mm or 0.4 – 0.8mm, as you wish.

Consumption of quartz sand is approximately 3 Kg/m<sup>2</sup>. Once EPOFLOOR UNI 8900 has solidified, the unbound portion of sand is removed using a vacuum. In the end, apply a layer of EPOFLOOR UNI 8900 with roller. Consumption is: 400 – 600 g/m<sup>2</sup>.



#### PACKAGING

EPOFLOOR UNI 8900 is available in 5kg and 10 Kg (A+B) packaging.

#### SHELF-LIFE STORAGE

24 months from manufacture date, if stored in its original and unopened packaging. Protect it from direct exposure to the sun and from frost.

#### TECHNICAL DATA

Chemical base (A+B)	bi-component epoxy resin
Density (A+B)	2,1 Kg/l
The mixing ratio (A:B)	5: 1: 6 in weight
Pot life	approx. 40 min in +20°C
Minimal temperature of solidification	+8°C
Trafficable	after 24 hours at +23°C
Final Resistance	after 7 days at +23°C
Resistance to compression	110 N/mm <sup>2</sup> (EN 13892 - 2)
Flexural resistance	62 N/mm <sup>2</sup> (EN 13892 - 2)
Adhesion strength	4 N/mm <sup>2</sup> (breaking point of concrete)
Maximal thickness	3 mm

## 4.5 SPORTIVE FLOORS

### FLOORCOAT FINAL



Unit of measurement	Pieces/Pallet	Consumption	Color/other specifications
5 kg/bucket	60 pcs/pallet	0.3-0.5 kg/m <sup>2</sup>	White/ Reddish
15 kg/bucket	36 pcs/pallet		



#### FLOORCOAT FINAL

An acrylic-base resins in water dispersion, semi-flexible paint, for the coating of sports floors.

#### CHARACTERISTICS

A semi-flexible, acrylic-base resins in water dispersion and filler-based of selected granulometry paint, for indoor and outdoor environments. Thanks to the formula of FLOORCOAT FINAL product, it has good coverage and longevity. The product has high resistance towards various weather conditions and towards abrasion. The product has excellent adhesive qualities in new surfaces and in pre-coated surfaces.

#### AREA OF APPLICATION

FLOORCOAT FINAL is used to coat sports floors, such as: tennis, basketball, volleyball, handball courts, tartar track in football pitches, etc. it is applied on concrete, asphalt surfaces, etc.

#### MANNER OF APPLICATION

##### 1.Surface preparation

The support where FLOORCOAT FINAL will be applied firstly should be cleaned from dirt and petroleum, oil, varnishes, wax residues, and from anti-adhesion materials. Cleaning of oils, varnishes, wax or anti-adhesion materials is done mechanically or manually. Following that, prime the surface using FLOORCOAT PRIMARY product.

##### 2. Product preparation

FLOORCOAT FINAL can be diluted with 10% - 15% water and is stirred through a mixer which is suitable for homogenization. Then, apply the product using a brush, roller or spray. The application of product is made in two layers. The second layer is applied 12 - 24 hours after the application of first layer.

#### TECHNICAL FEATURES

Chemical base	Acrylic dispersion
Specific weight of mixture	1,50±0,05 Kg/lt
Application temperature	From +10°C to +35°C
Recoat time	12 - 24 hours
Trafficable	About 24 hours according to the temperature

#### PACKAGING

In buckets of 5kg and 15kg.

#### CONSUMPTION

Smooth surface: 250 - 300 gr/m<sup>2</sup> / layer

#### SHELF-LIFE STORAGE

It is stored in a well-closed packaging, in dry, shady and low-moisture environments, for at least 12 months after manufacture date.



# 4.6 DECORATIVE FLOOR

QUARTZ



Granulometry	Pieces/ Pallet
new Quartz 0.25 Quartz 0.5 Quartz 0.8 Quartz 1.2 Quartz 1.8	54 pcs/pallet



**QUARTZ**  
Industrialized quartz sand, with scalable grain thickness.

**CHARACTERISTICS**  
Industrialized quartz sand, with scalable grain thickness, with a high hardness of 6-7 Mohs scale. It is chemically resistant and is not affected by the chemical qualities of synthetic materials and atmospheric contamination. It is not affected over time, and does not change like marble’s powder. It is suitable for cement, lime, epoxy resins and paint mixtures.

**AREA OF APPLICATION**  
Applications of quartz sand are diverse in industry and many other construction usages. It is ideal for industrial floors, thin leveling floor mortar, drainage structures, pool filters and drinking water. It is ideal to powder epoxy-paint floors in order to create anti-adhesion surfaces.



TECHNICAL FEATURES	
Form-Color	Big-grain, dry, scaled material- Beige
Composition	SiO <sub>2</sub>
Moisture content	0%
Size of grain	0-0,8 mm
Specific weight	1,45±0,05 kg/lt

**CONSUMPTION**  
Depends on the field of application.

**SHELF-LIFE STORAGE**  
The product is stored in low-moisture, covered environments, for an undetermined time.

**PACKAGING**  
Paper sacks of 25 kg.



## EPO DECOR 300



Unit of measurement	Pieces/Pallet	Consumption	Color/other specifications
1 kg/bucket	12 pcs/box	1:20	Transparent
5 kg/bucket	60 pcs/pallet	-	



### EPO DECOR 300

Polyurethane-based decorative coat which serves for the treatment of decorative floors.

#### Product classification:

EPO DECOR 300 is classified according to EN 998 – 1 standard.

#### CHARACTERISTICS

For indoor and outdoor usage.

- High resistance to atmospheric conditions.
- Good workability.
- Forms a stable a long-lasting structure.

#### AREA OF APPLICATION

EPO DECOR 300 is suitable to create decorative layers with excellent waterproofing, adhesive and elastic qualities. It is used to create decorative layers on surfaces leveled with cement mortar.

#### APPLICATION PROCEDURE

##### Support preparation:

The support where EPO DECOR 300 will be applied should be cleaned beforehand from dirt and petroleum, oils, varnishes, wax residues and anti-adhesion materials. Cleaning of oils, varnishes, wax or anti-adhesion materials is done mechanically or manually. Before the application of EPO DECOR 300, the support should be leveled with the dried primer TECNOFIX. Supports should be flat and mechanically stable, in function of intended usage.



#### APPLICATION MANNER

EPO DECOR 300 is applied through a straight metallic screed directly to the surface treated beforehand with Resin PRIMER RE 1800 primer. After laying the product on the support, compact it through a metallic screed in order to create the surface we want.

#### TECHNICAL FEATURES

Form	Paste
Color	Various
Volumetric weight	1750 Kg/m <sup>3</sup>
Application temperature	+5°C to +35°C

#### CONSUMPTION

5kg per meter square

#### SHELF-LIFE STORAGE

It is stored in its original, unopened packaging, protected by direct exposure to sun and frost, for at least 12 months after manufacture date.





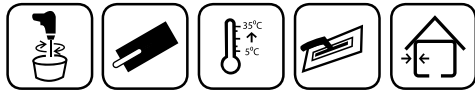
## **05. FINISHES AND DECORATIVE COATINGS**

## 5.1 PLASTER FOR FINISHES

### FINO CLASSIC



Unit of measurement	Pieces/Pallet	Consumption	Color/other specifications
25 kg/sack 5 kg/bag	54 pcs/pallet 4 pcs/box	2-2.3kg/m <sup>2</sup>	Grey White



#### FINO CLASSIC

It is a powder material, produced according to HTT technology (Hormon Transpirance Tecnology) which prevents mold creation and allows the airing of cement-based, hydrated lime, marble carbonate sand and marble of selected granulometry, synthetic resins and special additives walls.

#### TECHNICAL FEATURES

- It is characterized by an excellent opening and workability, and high outstanding coverage (10 - 12 m<sup>2</sup> / sack 25 kg)
- It facilitates application in indoor and outdoor surfaces which are filled with traditional mortar and pre-prepared mortar as well.
- It is applicable in a thickness up to 3 mm.

#### AREA OF APPLICATION

It is suitable for finishes in surfaces filled with traditional or pre-prepared cement-based or lime-based mortar. It can be covered with paint or other coatings of mineral and synthetic nature.

#### IMPORTANT DATA

- Do not add other components, such as cement, lime, etc in the given product.
- Do not apply it on pre-coated surfaces.
- Do not apply it on plastic surfaces or coatings.
- Do not apply it on surfaces thicker than 3 mm.
- Do not add water after the mixture has been prepared.
- It should be applied in temperatures from +5°C up to +35°C.
- Do not apply it in areas with ceramic coatings.
- Do not apply it in gypsum-based surfaces.
- Do not apply it in easily breakable or destroyable surfaces.

#### SUPPORT PREPARATION

The surface or support where FINO CLASSIC will be applied should be leveled and stable. Surfaces with greater unevenness than 3 mm should be leveled before the application of product.

#### MANNER OF MIXTURE PREPARATION

Pour 7.5 - 8 liters of water and 25 kg Fino Classic in a container. Mix them with an electric low- rotation mixer until the mixture becomes homogeneous. To stimulate the mixing FEATURES and to have a better result, it is recommended to let the mixture settle for about 10 minutes and stir it again before use.

#### MANNER OF PRODUCT APPLICATION

The material should be opened through a metallic screed, thus ensuring a uniform layer in the entire surface. The second layer of the material should be applied 30 minutes after the application of the first layer. After reaching the appropriate drying, for about 15 minutes in temperature 23°C, the surface should be rubbed with trowel. Environment temperature significantly affects the working time of the product. The lower the temperature, the longer is the working time.

#### CLEANING MANNER

Working tools and hands should be cleaned up while the product is still moist.



#### TECHNICAL DATA

Mixing ratio of	6.5-7 liters of water for 25 kg of white/grey Fino
Working time	3 - 4 hours
Application temperature	From +5°C to +35°C
pH of mixture	12
Thickness of layer	2 mm
Standby for the application of second layer	30 - 40 min
Standby for the rubbing	15 - 20 min
Standby for surface coating	3 - 4 weeks

#### TECHNICAL DATA ( IN 23°C AND 50% U.R)

Form	Powder
Color	Grey/White
Storage	12 months in original packaging and dry environment
Combustibility	Incombustible

#### FINAL DATA

Compression strength after 28 days	$\geq 5 \text{ Nmm}^2$
Resistance to flexion after 28 days	$\geq 2.5 \text{ Nmm}^2$

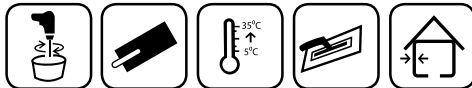


## 5.1 PLASTER FOR FINISHES

### BONIFIN



Unit of measurement	Pieces/Pallet	Consumption	Color/other specifications
25 kg/sack	54 pcs/pallet	2.5-3kg/m <sup>2</sup>	Grey
25 kg/sack	54 pcs/pallet		White



#### BONIFIN

Powder material, with cement, hydrated lime, carbonate sand with selected granulometry, synthetic resins and special additives.

#### TECHNICAL FEATURES

- It is characterized by an excellent opening and workability, which facilitates application in indoor and outdoor surfaces that are filled with traditional mortar and pre-prepared mortar as well.
- It is applicable up to a thickness of 3 mm.

#### AREA OF APPLICATION

It is suitable for finishes in surfaces filled with traditional or pre-prepared cement-based or lime-based mortar. It can be covered with paint or other coatings of mineral and synthetic nature.

#### IMPORTANT DATA

- Do not add other components, such as cement, lime, etc in the given product.
- Do not apply it on pre-coated surfaces.
- Do not apply it on plastic surfaces or coatings.
- Do not apply it on surfaces with unevenness greater than 3 mm.
- Do not add water after the mixture has been prepared.
- It should be applied in temperatures from +5°C up to +35°C.
- Do not apply it in areas where ceramic coatings are present.
- Do not apply it in gypsum-based surfaces.
- Do not apply it in easily breakable or destroyable surfaces.

#### SUPPORT PREPARATION

The surface or support where grout will be applied should be leveled and stable. Surfaces with a thickness over 3 mm should be leveled before the application of product.

#### MANNER OF MIXTURE PREPARATION

Pour 7.5 - 8 liters of water and 25 kg BONIFIN in a container. Mix them with an electric low- rotation mixer until the mixture becomes homogeneous. In order to stimulate the mixing FEATURES and have a better result, it is recommended to let mixture settle for about 10 minutes and stirred again before use.

#### MANNER OF PRODUCT APPLICATION

The material should be opened through a metallic screed, thus ensuring a uniform layer in the entire surface. The second layer of the material should be applied 30 minutes after the application of the first layer. After reaching the appropriate drying, for about 15 minutes in temperature 23°C, the surface should be rubbed with trowel. Environment temperature significantly affects the working time of the product. The lower the temperature, the longer is the working time.


**TECHNICAL DATA (IN +23°C and 50% U.R.)**

Mixing ratio of	7.5 - 8 liters of water for 25 kg Bonfin
Working time	2 - 3 hours
Application temperature	+5°C to +35°C
pH of mixture	12
Thickness of layer	2mm
Standby for the application of second layer	30 - 40 min
Standby for the rubbing	15 - 20 min
Standby for surface coating	3 - 4 weeks
Form	Powder
Color	Grey/white
Storage	12 months in original packaging
Combustibility	Incombustible

**FINAL DATA**

Resistance to compression after 28 days	$\geq 3 \text{ Nmm}^2$
Resistance to flexion after 28 days	$\geq 1.5 \text{ Nmm}^2$

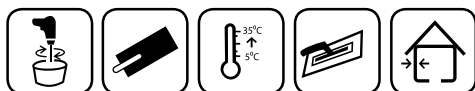


## 5.1 PLASTER FOR FINISHES

### FINO ANTIQUE



Unit of measurement	Pieces/Pallet	Consumption	Color/other specifications
25 kg/sack	54 pcs/pallet	1.5kg/m <sup>2</sup> /mm	Grey White



#### FINO ANTIQUE

Product for finishes of antique view.

#### TECHNICAL FEATURES

Powder material produced based on HTT technology (Horman Transpiration Tecnology) which prevents mold creation and allows the transpiration of cement-based, hydrated lime, marble carbonate sand and marble of selected granulometry, synthetic resins and special additives walls. It is characterized by an excellent opening and workability, and facilitates application in indoor and outdoor surfaces which are filled with traditional mortar and pre-prepared mortar as well. It is applicable up to a thickness of 3 mm.

#### AREA OF APPLICATION

It is suitable for finishes in surfaces filled with traditional or pre-prepared cement-based or lime-based mortar. It can be covered with paint or other coatings of mineral and synthetic nature.

#### IMPORTANT DATA

- Do not add other components, such as cement, lime, etc in the given product.
- Do not apply it on pre-coated surfaces.
- Do not apply it on plastic surfaces or coatings.
- Do not apply it on surfaces thicker than 3 mm.
- Do not add water after the mixture has been prepared.
- It should be applied in temperatures from +5°C up to +35°C.
- Do not apply it in areas with ceramic coatings.
- Do not apply it in gypsum-based surfaces.
- Do not apply it in easily breakable or destroyable surfaces.

#### SUPPORT PREPARATION

The surface or support where FINO ANTIQUE will be applied should be leveled and stable. Surfaces with unevenness greater than 3 mm should be leveled before the application of product.

#### MANNER OF MIXTURE PREPARATION

Pour 6-7 liters of water and 25 kg Fino ANTIQUE in a container. Mix them with an electric low- rotation mixer until the mixture becomes homogeneous. To stimulate the mixing FEATURES and to have a better result, it is recommended to let mixture settle for about 10 minutes and stir again before use.

#### MANNER OF PRODUCT APPLICATION

The material should be opened through a metallic screed, thus ensuring a uniform layer in the entire surface. The second layer of the material should be applied 30 minutes after the application of the first layer. After reaching the appropriate drying, for about 15 minutes in temperature 23°C, the surface should be rubbed with trowel. Environment temperature significantly affects the working time of the product. The lower the temperature, the longer is the working time.



#### TECHNICAL DATA

Mixing ratio of	6-7 liters of water for 25 kg
Working time	2 hours
Application temperature	from +5°C to +35°C
pH of mixture	12
Thickness per layer	3mm
Standby for the application of second layer	30 - 40 min
Standby for the rubbing	15 - 20 min
Standby for surface coating	3 - 4 Weeks

#### PACKAGING

FINO ANTIQUE plastic bucket of 25 kg

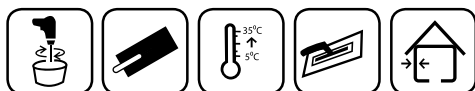


## 5.2 PLASTER FOR DECORATIVE COATING

### DECOR SILEX



Unit of measurement	Pieces/Pallet	Consumption	Color/other specifications
25 kg/bucket	27 pcs/pallet	2.5 kg/m <sup>2</sup> 2.7 kg/m <sup>2</sup> 2.7 kg/m <sup>2</sup> 3.5 kg/m <sup>2</sup> 4.2 kg/m <sup>2</sup>	1 mm Full 1.5 mm Full 1.5 mm Structure 2 mm Structure 3 mm Structure



#### DECOR SILEX

Decorative and ready to use coat, that serves for the treatment of facades and indoor silicone-based surfaces. It is an ecologically tested product. Manufactured based on HTT technology (Hörman Transpirant Technology) ), it allows wall airing and mold prevention. Thanks to the new formula with synthetic fibers and special additives in its content, this product does not allow cracks and impurities to unify with it, thus self-cleansing easily.

#### GENERAL FEATURES

- It allows vapor permeability of the wall.
- Forms a stable structure.
- Closes plaster cement-lime based cracks.
- Forms a beautiful and protective structure against atmospheric agents.
- It is characterized by good opening and workability.
- It is characterized by a long working time.
- Conform EN 15824.
- Easily applied product.
- The product has high self-cleaning properties.

#### AREA OF APPLICATION

It is suitable to create decorative coatings with excellent waterproof, adhesive and elastic qualities. It is also used to create decorative coatings on surfaces filled with basic insulating mortars, which have been flattened beforehand with TECNOFIX or CONEXION 99 in the thermal insulation systems, after having been treated with TECNOFIX LIQUID.

#### SUPPORT PREPARATION

The support where DECOR SILEX will be applied should be cleaned beforehand from dust and petroleum, oil, varnishes and wax residues and from anti-adhesion materials. Cleaning of oils, varnishes, wax or anti-adhesion materials is done mechanically or manually. Before the application of DECOR SILEX, the support should be leveled and flattened with Tecnofix. Supports should be flat and mechanically stable, in function of intended usage.

#### APPLICATION MANNER

The product is ready to use. Application is done manually through a screed. Immediately after the application of the product on the support, flatten it through a plastic screed in horizontal, vertical or circular movements, depending on the aesthetic effect you wish to achieve. Workability depends on the absorbent quality of the support and environment temperature.



#### CONSUMPTION

Structure	Consumption
Granular structure 1.5 mm	2.5 kg/m <sup>2</sup>
Striped structure 2.5 mm	2.8 kg/m <sup>2</sup>
Striped structure 3.2 mm	3.9 kg/m <sup>2</sup>

#### TECHNICAL FEATURES

Form	Paste
Color	White
Storage	24 months in its original packaging and dry environment
Combustibility	incombustible
Resistance to moisture	good
pH of mixture	12
Application temperature	+5°C to +35°C
Pot life	20 min in 20°C
Density	1,80 kg/lit
Resistance to compression	≥ 12,0 N/mm <sup>2</sup>
Flexural resistance	≥ 6,3 N/mm <sup>2</sup>
Adhesive ability	≥ 2,0 N/mm <sup>2</sup>

#### PACKAGING

Decor Silex is supplied in plastic buckets of 25 kg

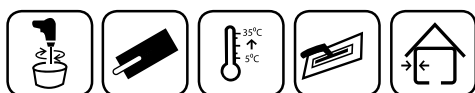


## 5.2 PLASTER FOR DECORATIVE COATING

### DECORTEX



Unit of measurement	Pieces/Pallet	Consumption	Color/other specifications
25 kg/bucket	27 psc/pallet	2-2.5 kg/m <sup>2</sup> 2.5-2.7 kg/m <sup>2</sup> 2.7-3.2 kg/m <sup>2</sup> 4.5-5 kg/m <sup>2</sup>	1 mm Full 1.5 mm Full 2 mm Structure 3.2 mm Structure



#### DECORTEX

Decorative silanated and ready to use coat, that serves for the treatment of facades and indoor surfaces. It is an ecologically tested product. Manufactured based on HTT technology (Hörman Transpirant Technology), it allows wall airing and mold prevention. Thanks to the new formula with synthetic fibers and special additives in its content, this product does not allow cracks and impurities to unify with it, thus self-cleansing easily.

#### GENERAL FEATURES

- It allows vapor permeability of the wall.
- Forms a stable structure.
- Closes cement-lime based cracks in plasters.
- Forms a beautiful and protective structure against atmospheric agents.
- It is characterized by good opening and workability.
- It is characterized by a long working time.
- In conformity with EN 15824.
- Easily applied product.

#### AREA OF APPLICATION

It is suitable to create decorative coatings with excellent waterproof, adhesive and elastic qualities. It is also used to create decorative coatings on surfaces filled with basic thermal insulating mortars, which have been flattened beforehand with TECNOFIX or CONEXION 99 in the thermal insulation systems, after having been treated with TECNOFIX LIQUID.

#### SUPPORT PREPARATION

The support where DECORTEX will be applied should be cleaned beforehand from dust and petroleum, oil, varnishes and wax residues and from anti-adhesion materials. Cleaning of oils, varnishes, wax or anti-adhesion materials is done mechanically or manually. Before the application of DECORTEX, the support should be leveled and flattened with Tecnofix. Supports should be flat and mechanically stable, in function of intended usage.

#### PRODUCT APPLICATION MANNER

The product is ready to use. Application can be done manually through a screed. Immediately after the application of the product on the support, flatten it through a plastic screed by horizontal, vertical or circular movements, depending on the aesthetic effect you wish to achieve. Workability depends on the absorbent quality of the support and environment temperature.

#### IMPORTANT DATA

- During the application of the product, the environment temperature should be higher than 5°C.
- When there are high temperatures, after the application, sprinkle the product with water in order to avoid water losses.
- During the application of the product, pay attention to avoid face contact with the product because this product is classified as irritant in contact with face.



#### CONSUMPTION

Structure	Consumption
Granular structure 1 mm	2-2.5 kg/m <sup>2</sup>
Granular structure 1.5 mm	2.5-2.7 kg/m <sup>2</sup>
Striped structure 2 mm	2.7-3.2 kg/m <sup>2</sup>
Striped structure 3.2 mm	4.5-5 kg/m <sup>2</sup>

#### TECHNICAL DATA

Form	Paste
Color	White
Storage	24 months in its original packaging and dry environment
Combustibility	incombustible
Resistance to moisture	good
Application temperature	+5°C to +35°C
Pot life	25 min in 20°C
Density	1,75 kg/lit
Resistance to compression	≥ 11,0 N/mm <sup>2</sup>
Flexural resistance	≥ 5,5 N/mm <sup>2</sup>
Adhesive ability	≥ 1,5 N/mm <sup>2</sup>



#### PACKAGING

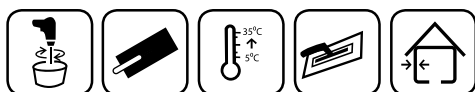
Decortex is supplied in plastic buckets of 25 kg

## 5.2 PLASTER FOR DECORATIVE COATING

### GRAFIATO ACRYL



Unit of measurement	Pieces/Pallet	Consumption	Color/other specifications
25 kg/bucket	27 psc/pallet	2-2.5 kg/m <sup>2</sup> 2.5-2.7 kg/m <sup>2</sup> 2.7-3.2 kg/m <sup>2</sup> 4.5-5 kg/m <sup>2</sup>	1 mm Full 1.5 mm Full 2 mm Structure 3.2 mm Structure



#### GRAFIATO ACRYL

Decorative and ready to use coat, that serves for the treatment of facades and indoor surfaces. It is an ecologically tested product. Manufactured based on HTT technology (Hörman Transpirant Tecnología), it allows wall airing and mold prevention. Thanks to the new formula with synthetic fibers and special additives in its content, this product does not allow cracks and prevents impurities from unifying with it, thus it self-cleanses easily.

#### GENERAL FEATURES

- It allows vapor permeability of the wall.
- Forms a stable structure.
- Closes cement-lime based cracks in plasters.
- Forms a beautiful and protective structure against atmospheric agents.
- It is characterized by good opening and workability.
- It is characterized by a long working time.
- In conformity with EN 15824.
- Easily applied product.

#### AREA OF APPLICATION

It is suitable to create decorative coatings with excellent waterproof, adhesive and elastic qualities. It is also used to create decorative coatings on surfaces filled with basic thermal insulating mortars, which have been flattened beforehand with TECNOFIX or CONEXION 99 in the thermal insulation systems, after having been treated with TECNOFIX LIQUID.

#### SUPPORT PREPARATION

The support where GRAFIATO ACRYL will be applied should be cleaned beforehand from dust and petroleum, oil, varnishes and wax residues and from anti-adhesion materials. Cleaning of oils, varnishes, wax or anti-adhesion materials is done mechanically or manually. Before the application of GRAFIATO ACRYL, the support should be leveled and flattened with Tecnofix. Supports should be flat and mechanically stable, in function of intended usage.

#### PRODUCT APPLICATION MANNER

The product is ready to use. Application can be done manually through a screed. Immediately after the application of the product on the support, flatten it through a plastic screed in horizontal, vertical or circular movements, depending on the aesthetic effect you wish to achieve. Workability depends on the absorbent quality of the support and environment temperature.

#### IMPORTANT DATA

- During the application of the product, the environment temperature should be higher than 5°C.
- When there are high temperatures, after the application, sprinkle the product with water in order to avoid water losses.
- During the application of the product, pay attention to avoid face contact with the product because this product is classified as irritant in contact with face.

#### PACKAGING

GRAFIATO ACRYL is supplied in plastic buckets of 25 kg.



#### CONSUMPTION

Structure	Consumption
Granular structure 1 mm	2-2.5 kg/m <sup>2</sup>
Granular structure 1.5 mm	2.5-2.7 kg/m <sup>2</sup>
Striped structure 2 mm	2.7-3.2 kg/m <sup>2</sup>
Striped structure 3.2 mm	4.5-5 kg/m <sup>2</sup>

#### TECHNICAL DATA

Form	Paste
Color	White
Storage	24 months in its original packaging and dry environment
Combustibility	incombustible
Resistance to moisture	Good
Application temperature	+5°C to +35°C
Pot life	20 min in 20°C
Density	1,85 kg/lit
Resistance to compression	≥ 8,0 N/mm <sup>2</sup>
Flexural resistance	≥ 3,5 N/mm <sup>2</sup>
Adhesive ability	≥ 1,0 N/mm <sup>2</sup>

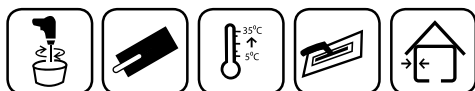


## 5.2 PLASTER FOR DECORATIVE COATING

### GRAFITI 1, 2, 3



Unit of measurement	Pieces/Pallet	Consumption	Color/other specifications
25 kg/sack	54 pcs/pallet	2.2 kg/m <sup>2</sup> 3.1 kg/m <sup>2</sup> 3.8 kg/m <sup>2</sup>	1 mm Full 2 mm Structure 3 mm Structure



#### GRAFITI

Decorative coating that serves for the treatment of facades and indoor surfaces.

#### PRODUCT CLASSIFICATION

GRAFITI is classified according to EN 998 - 1.

#### FEATURES

- For indoor and outdoor use.
- High resistance to weather conditions.
- Good workability.
- Forms a stable and long-lasting structure.

#### AREA OF APPLICATION

GRAFITI is suitable to create decorative coatings with excellent water-proof, adhesive and elastic qualities. It is also used to create decorative coatings on surfaces filled with cement mortar or basic thermal insulating mortar, which have been flattened beforehand with TECNOFIX or one product from DW CONEXION line of products. It is also used in outdoor thermal insulation systems as a decorative coating.

#### PROCEDURE OF APPLICATION

##### Preparation of support.

The support where GRAFITI will be applied should be beforehand cleaned from dust and petroleum, oils, varnishes, wax residues, and from anti-adhesion materials. The cleaning of oils, varnishes, wax or anti-adhesion materials is done mechanically or manually. Before applying GRAFITI, level the support with the dry primer TECNOFIX. Supports should be flat and mechanically stable, in function of intended use.

#### APPLICATION

GRAFITI is applied through a straight, metallic screed directly on the surface which has been pre-treated with TECNOFIX LIQUID primer. After putting the product on the support, rub it with a plastic screed so as to create the structures you wish.

#### PACKAGING

GRAFITI is supplied in sacks of 25 kg.

#### SEHLF-LIFE STORAGE

12 months after manufacture date, if stored in original and unopened packaging and protected from direct exposure to sun and frost.



#### CONSUMPTION

Depending on the stone dimension

Stone dimension (mm)	Consumption (Kg/m <sup>2</sup> )
1 mm	2.5 Kg/m <sup>2</sup>
2 mm	3.2 Kg/m <sup>2</sup>
3 mm	4.2 Kg/m <sup>2</sup>

#### TECHNICAL DATA

Form	Cement-based powder
Color	White
Volumetric weight	1390 Kg/m <sup>3</sup>
Amount of water for preparation	25 - 27%
Mortar volumetric weight	1630 Kg/m <sup>3</sup>
Application temperature	+5°C to +35°C



## 5.2 PLASTER FOR DECORATIVE COATING

### GRAFIATO 1, 2, 3



Unit of measurement	Pieces/Pallet	Consumption	Color/other specifications
25 kg/sack	54 pcs/pallet	2.2 kg/m <sup>2</sup> 3.1 kg/m <sup>2</sup> 3.8 kg/m <sup>2</sup>	1 mm Full 2 mm Structure 3 mm Structure



#### GRAFIATO

Decorative coating that serves for the treatment of facades and indoor surfaces.

#### PRODUCT CLASSIFICATION

GRAFIATO is classified according to EN 998 - 1.

#### FEATURES

- For indoor and outdoor use.
- High resistance to weather conditions.
- Good workability.
- Forms a stable and long-lasting structure.

#### AREA OF APPLICATION

GRAFIATO is suitable to create decorative coatings with excellent water-proof, adhesive and elastic qualities. It is also used to create decorative coatings on surfaces filled with cement mortar or basic thermal insulating mortar, which have been flattened beforehand with TECNOFIX or one product from DW CONEXION line of products. It is also used in outdoor thermal insulation systems as a decorative coating.

#### PROCEDURE OF APPLICATION

##### Preparation of support.

The support where GRAFIATO will be applied should be beforehand cleaned from dust and petroleum, oils, varnishes, wax residues, and from anti-adhesion materials. The cleaning of oils, varnishes, wax or anti-adhesion materials is done mechanically or manually.

Before applying GRAFIATO, level the support with the dry primer TECNOFIX. Supports should be flat and mechanically stable, in function of intended use.

#### MANNER OF APPLICATION

GRAFIATO is applied through a straight, metallic screed directly on the surface which has been pre-treated with TECNOFIX LIQUID primer. After putting the product on the support, rub it with a plastic screed, to create the structures you wish.

#### PACKAGING

GRAFIATO is supplied in sacks of 25 kg.

#### SEHLF-LIFE STORAGE

12 months after manufacture date, if stored in original and unopened packaging and protected from direct exposure to sun and frost.



#### CONSUMPTION

Depending on the stone dimension

Stone dimension (mm)	Consumption (Kg/m <sup>2</sup> )
1 mm	2.5 Kg/m <sup>2</sup>
2 mm	3.2 Kg/m <sup>2</sup>
3 mm	4.2 Kg/m <sup>2</sup>

#### TECHNICAL DATA

Form	Cement-based powder
Color	White
Volumetric weight	1350 Kg/m <sup>3</sup>
Amount of water for preparation	25 - 27%
Mortar volumetric weight	1550 Kg/m <sup>3</sup>
Application temperature	+5°C to +35°C



## 5.2 PLASTER FOR DECORATIVE COATING

### DECORTEX MIN 1, 2, 3



Unit of measurement	Pieces/Pallet	Consumption	Color/other specifications
25 kg/sack	54 pcs/pallet	2.5 kg/m <sup>2</sup> 3.2 kg/m <sup>2</sup> 4.1 kg/m <sup>2</sup>	1 mm Full 2 mm Structure 3 mm Structure



#### DECORTEX MINERAL

Decorative coating that serves for the treatment of facades and indoor surfaces.

#### PRODUCT CLASSIFICATION

DECORTEX MINERAL is classified according to EN 998 - 1.

#### FEATURES

- For indoor and outdoor use.
- High resistance to weather conditions.
- Good workability.
- Forms a stable and long-lasting structure.

#### AREA OF APPLICATION

DECORTEX MINERAL is suitable to create decorative coatings with excellent waterproof, adhesive and elastic qualities. It is also used to create decorative coatings on surfaces filled with cement mortar or basic thermal insulating mortar, which have been flattened beforehand with TECNOFIX or one product from DW CONEXION line of products. It is also used in outdoor thermal insulation systems as a decorative coating.

#### PROCEDURE OF APPLICATION

##### Preparation of support.

The support where DECORTEX MINERAL will be applied should be beforehand cleaned from dust and petroleum, oils, varnishes and wax residues, and from anti-adhesion materials. The cleaning of oils, varnishes, wax or anti-adhesion materials is done mechanically or manually. Before the application of DECORTEX MINERAL, level the support with the dry primer TECNOFIX. Supports should be flat and mechanically stable, in function of intended use.

#### MANNER OF APPLICATION

DECORTEX MINERAL is applied through a straight, metallic screed directly on the surface which has been pre-treated with TECNOFIX LIQUID primer. After putting the product on the support, rub it with a plastic screed, to create the structures you wish.

#### PACKAGING

DECORTEX MINERAL is supplied in sacks of 25 kg.

#### SEHLF-LIFE STORAGE

12 months after manufacture date, if stored in original and unopened packaging and protected from direct exposure to sun and frost.



#### CONSUMPTION

Depending on the stone dimension

Stone dimension (mm)	Consumption (Kg/m <sup>2</sup> )
1 mm	2.5 Kg/m <sup>2</sup>
2 mm	3.2 Kg/m <sup>2</sup>
3 mm	4.2 Kg/m <sup>2</sup>

#### TECHNICAL DATA

Form	Cement-based powder
Color	White
Volumetric weight	1350 Kg/m <sup>3</sup>
Amount of water for preparation	25-27%
Mortar volumetric weight	1550 Kg/m <sup>3</sup>
Application temperature	+5°C to +35°C

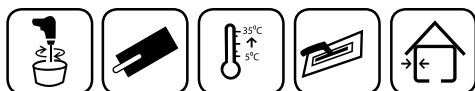


## 5.2 PLASTER FOR DECORATIVE COATING

### DECOQUARTZ



NAME	UNIT OF MEASUREMENT	PIECES/PALLET	CONSUMPTION	COLOR/ OTHER SPECIFICATIONS
1. Sahara 2. Canus 3. Canus Dark 4. Terra Nera 5. Smerald 6. Desert 7. Jasper 8. Lividus 9. Fulvus 10. Dark Sky 11. Firebrick 12. Snow 13. Brunt 14. River stone 15. Clay 16. Colorado	25 kg/bucket	27 pcs/pallet	5kg/m <sup>2</sup>	White and ocher White and gray White, Grey, Black Black coffee Green and white Ocher and brown lightly Green and black Blue and black Brown and white Blue and gray Grayish red Little white ocher Ocher and white Black, white and yellow White, light gray and ocher Yellow, red



#### DECOQUARTZ

Decorative coating that serves for the treatment of facades and indoor surfaces.

#### PRODUCT CLASSIFICATION

DECOQUARTZ is classified according to EN 15824 standard.

#### FEATURES

- For indoor and outdoor use.
- High resistance to weather conditions.
- Good workability.
- Forms a stable and long-lasting structure.

#### AREA OF APPLICATION

DECOQUARTZ is suitable to create decorative coatings with excellent waterproof, adhesive and elastic qualities. It is also used to create decorative coatings on surfaces filled with cement mortar or basic thermal insulating mortar, which have been flattened beforehand with TECNNOFIX or one product from DW CONEXION line of products.

#### PROCEDURE OF APPLICATION

##### Preparation of support:

The support where DECOQUARTZ will be applied should be beforehand cleaned from dust and petroleum, oils, varnishes and wax residues, and from anti-adhesion materials. The cleaning of oils, varnishes, wax or anti-adhesion materials is done mechanically or manually. Before the application of DECOQUARTZ, level the support with the dry primer TECNNOFIX. Supports should be flat and mechanically stable, in function of intended use.



#### MANNER OF APPLICATION

DECOQUARTZ is applied through a straight, metallic screed directly on the surface which has been pre-treated with TECNNOFIX LIQUID primer. After putting the product on the support, compress it with a plastic screed, to create the structures you wish.

#### PACKAGING

DECOQUARTZ is supplied in buckets of 25 kg.

#### SELF-LIFE STORAGE

24 months after manufacture date, if stored in original and unopened packaging and protected from direct exposure to sun and frost.

#### CONSUMPTION

5 kg for m<sup>2</sup>

#### TECHNICAL DATA

Form	Paste
Color	Various
Volumetric weight	1750 Kg/m <sup>3</sup>
Application temperature	+5°C to +35°C

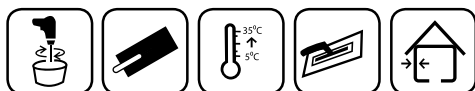


## 5.3 SKIM COAT

### NANOTOP EXTRA



Unit of measurement	Pieces/Pallet	Consumption	Color/other specifications
25 kg/sack	54 pcs/pallet	1 kg/m <sup>2</sup>	White



#### FINAL SPATORELLA

Stucco based on nanotechnology applications to realize smooth ceiling finishes in exterior and interior environments.

#### TECHNICAL CHARACTERISTICS

Stucco consisting of white cement, white marble powder, resin and special additives. Based on nanotechnology application Used in interior and exterior environments It is possible that it gets a thickness of 0-3 mm anytime it is applied It is easily scoured with a sandpaper and provides a ceiling finishes strong and highly polished It is in conformity with the rate EN 998-1.

#### APPLICATION AREAS

For the stucco of walls and ceilings filled with traditional mortar or mortar prepared with lime-based cement. For the stucco of the concrete surfaces. For the creation of the polished smooth finishes in interior and exterior environments.

#### THE PREPARATION OF THE SUPPORT

The supports which are characterized of the elevation of more than 3mm must be leveled in advance before applying the putty.

#### PRODUCT'S APPLICATION METHOD

Product spreads on the surface through a smooth spatula to ensure a spread and complete coverage of the surface. The product is applied two times with a thickness of 3mm. The second time is applied after the surface is dried in 2-3 hours after the first application at a temperature of 23°C.

#### PRODUCT CLEANING

Work tools and hands' cleaning should be done when the product is completely dried.

#### CONSUMPTION

Approximately 1kg/ m<sup>2</sup>

#### PACKAGING

25 Kg paper bag

#### SEHLF-LIFE STORAGE

12 months after manufacture date, if stored in original and unopened packaging and protected from direct exposure to sun and frost.

**TECHNICAL DATA (IN +23°C AND 50% U.R.)**

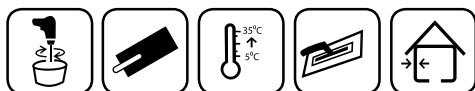
Form	Powder
Color	White
Preservation	12 months in original packing in a dry place
Water Demand	8.5-9.5 liters water for 25 kg Final Spachtel
Pot Life	4-5 hours
Temperature of application	+5°C to +35°C
Time for second layer	After 120 min
Standby for sanding	24 hours

## 5.3 SKIM COAT

### ACRYL SPACHTEL



Unit of measurement	Pieces/Pallet	Consumption	Color/other specifications
15 kg/sack	80 pcs/pallet	1 kg/m <sup>2</sup>	White



Plaster stucco produced based on nanotechnology, to realize smooth finishes in outdoor and indoor environments.

#### TECHNICAL FEATURES

- Plaster stucco, composed of white cement, hydrated lime, white marble powder, resins and special additives.
- Produces based on nanotechnology.
- Used for indoor and outdoor environments
- Allows a thickness from 0 up to 3 mm for every layer.
- Easily rubbed with sandpaper and provides a solid and smooth finishing
- It is in conformity with EN 998 – 1 norm.

#### AREA OF APPLICATION

- It is used to stucco walls and ceiling filled with traditional mortar or pre-prepared lime and cement- based mortar.
- It is used to stucco concrete surfaces.
- It is used to create smooth finishes in indoor and outdoor environments.

#### PREPARATION OF SUPPORT

Supports that are characterized by a greater unevenness than 3mm, should be leveled before the application of stucco. Supports should be leveled and mechanically stable, clean, free of paints, grease, etc.

#### MANNER OF PRODUCT APPLICATION

The product is opened on the surface through a smooth spatula, thus ensuring a full opening and coverage of the surface. The product is applied in two layers, in a thickness of 3mm. the second layer is done after the first one is dried (after 2-3 hours in a temperature of 23°C).

#### CLEANING

The cleaning of work tools and hands should be done before the product is completely dried.

#### CONSUMPTION

Approximately 1kg/ m<sup>2</sup>

#### PACKAGING

25 Kg paper bag

#### SEHLF-LIFE STORAGE

12 months after manufacture date, if stored in original and unopened packaging and protected from direct exposure to sun and frost.



#### TECHNICAL DATA (IN +23°C AND 50% U.R.)

Form	Powder
Color	White
Storage	12 months in original packaging and in a dry place
Combustibility	Incombustible
Mixing ratio	4.5 - 5 liters of water per 15 kg Acryl Spachtel
Pot life	4 - 5 hours
pH of the mixture	12
Application temperature	+5°C to +35°C
Maximal thickness for one layer	1 mm
Time for second layer	after 60 - 90 min
Standby for rubbing	24 hours
Standby for painting	3 - 4 weeks

#### FINAL DATA

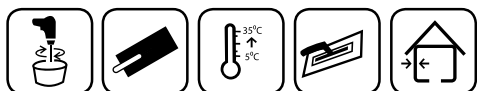
Resistance to compression	$\geq 5.5 \text{ N/mm}^2$
Flexural resistance	$\geq 2,0 \text{ N/mm}^2$
Adhesion strength to concrete	$\geq 1,0 \text{ N/mm}^2$

## 5.3 SKIM COAT

### ECOTECH STUCCO



Unit of measurement	Pieces/Pallet	Consumption	Color/other specifications
25 kg/sack	80 pcs/pallet	1 kg/m <sup>2</sup>	White



#### ECO SPACHTEL

Polishing plaster coat for fine indoor finishing, based on hydrated lime, thin-layer of maximum 4 mm, it is used for obtaining smooth surfaces on walls and ceilings inside the buildings.

#### CHARACTERISTICS

- High quality finishing
- White color
- High level of adherence
- Water permeability
- Long placement time

#### SCOPE OF USE

ECO SPACHTEL, polishing plaster coat is used to cover the traditionally plastered and the concrete surfaces, in a maximum 2 mm layer. The finishing is traditionally done through grinding with abrasive paper. The surface treated with polishing plaster coat ECO SPACHTEL will become perfectly smooth and of an immaculate white, so it could serve as final finishing (it can be left unpainted). If wanted, the polishing plaster coat can be dyed after drying with dispersion paints and even with mineral paint-based paints. This polishing plaster coat can be used inside the buildings in dried places, without permanent humidity.

#### SUBSTRATE PREPARATION

ECO SPACHTEL, polishing plaster coat is used to cover the dried, dense, coarse and clean surfaces that do not have adherence inhibitors (grease, bituminous earth, dust). The concrete is coated with: traditional concrete lining, dyeing (resistant), cartoon-gypsum boards, and fiber – gypsum, wood substitutes and others. The superficial unresisting layers will be removed. The paintings based on distempers or lime will be obligatory and totally removed, will be scraped off, after a pervious wetting, and then washed with water. The glossy surfaces treated with oil color will pass at roughing with gloss papier and then dusted off.

#### APPLICATION

ECO SPACHTEL, will be inserted in a measured quantity of clean and cold water and will be mixed using a rotator blade to obtain a uniform compound, without agglomeration. After 10 minutes, it will be mixed again. Keep in mind that the mixing speed has to be moderate to avoid the formation of air bubbles in spatula mass. There won't be used any tools and recipients that are rusted, dirty or in contact with different substances (paint, hard polishing plaster coat, diluents etc.). The consistence of the mixture will be established according to the conditions and the execution technology and will be maintained the whole time of the activity. The layers applied and dried on the wall can be easily finished through wetting and leveling with the iron for polishing plaster coat, obtaining a very smooth surface, almost glossy. Moreover, after drying, the surface can be grinded with gloss papier, still we will obtain a rougher surface, depending what size of gloss papier granulation we use. The dust laid on the surface will be swept off with a small soft bloom. The possible irregularities will be puttied and then grinded. The tools and the places that are dirty because of the polishing plaster coat will be cleaned with water and the hard remains will be mechanically removed. The prepared but unused material can be kept in a closed recipient and reused many days after.

#### CONSUMPTION

Approximately 1kg/ m<sup>2</sup>

#### PACKAGING

ECO SPACHTEL is packaging in 25 Kg paper bag.

#### SEHLF-LIFE STORAGE

12 months after manufacture date, if stored in original and unopened packaging and protected from direct exposure to sun and frost.



#### TECHNICAL DATA

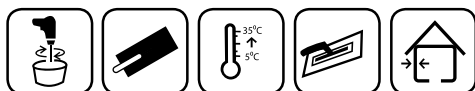
Base	Mixture of polymers with hydrated lime and modifiers
Density	1 kg/dm <sup>3</sup>
Water Demand	8.5-9.5 L of water / 25 kg dust
Pot Life	24 hours in covered recipient
Application temperature	5–30 degrees C
Estimated consumption	0.4–1.2/ square meters
Support adherence	> 0.5 N/mm <sup>2</sup>
Drying time	24 hours

## 5.3 SKIM COAT

### SPATORELLA



Unit of measurement	Pieces/Pallet	Consumption	Color/other specifications
15 kg/sack 5 kg/bag	80 pcs/pallet 4 pcs/box	1 kg/m <sup>2</sup> 1 kg/m <sup>2</sup>	white -



#### SPATORELLA

Plaster stucco for smooth finishes.

#### TECHNICAL FEATURES

- Plaster stucco, composed of white cement, hydrated lime, white marble powder, resins and special additives.
- Characterized by good workability and easy opening; without vertical slip, thus facilitating application in vertical surfaces.
- Used for indoor and outdoor environments
- Allows a thickness from 1 up to 3 mm for every layer.
- Easily rubbed with sandpaper and provides a solid and smooth finishing
- It is in conformity with EN 998 – 1 norm.

#### AREA OF APPLICATION

- It is used to stucco walls and ceiling filled with traditional mortar or pre-prepared lime and cement- based mortar.
- It is used to stucco concrete surfaces.
- It is used to stucco gypsum-board walls and ceiling.

#### IMPORTANT NOTES

- Do not add other materials such as lime or cement in the given product.
- Do not apply the product on painted surfaces.
- Do not apply the product on supports of plastic coatings.
- Do not apply it in a thickness bigger than 5 mm.
- Do not add water in the mixture, after the mixture has been prepared.
- Apply it in temperatures from +5°C to +10°C.

#### Reinforcement with Latex

To improve the adhesiveness, resistance to water, plasticity, flexibility, mechanical strength, etc., SPATORELLA can be reinforced with Latex additive.

The mixing ratio is 1: 5 with water.



#### Mixture Preparation

Mix 15 kg plaster stucco with 4.5 - 5 liters of water with an electric low-rotation mixer, until you get a homogeneous mixture. It is recommended to let the acquired mixture settle for about 5 minutes, and then stir it again before use.

#### PREPARATION OF SUPPORT

Supports that are characterized by a greater unevenness than 3mm, should be leveled before the application of stucco. The support where the product will be applied should be free of external materials, such as: grease, varnishes, paints, etc. the support should be watered before the application of the product.

#### MANNER OF PRODUCT APPLICATION

The product is opened on the surface through a smooth spatula, thus ensuring a full opening and coverage of the surface. The product is applied in a thickness of 3mm, in one or two layers.

#### CLEANING

The cleaning of work tools and hands should be done before the product is completely dried.

#### CONSUMPTION

Approximately 1kg/ m<sup>2</sup>

#### PACKAGING

SPATORELLA is packaging in 25 Kg paper bag.

#### SEHLF-LIFE STORAGE

12 months after manufacture date, if stored in original and unopened packaging and protected from direct exposure to sun and frost.



#### TECHNICAL DATA (IN + 23°C AND 50% U.R.)

Form	Powder
Color	White
Storage	12 months in original packaging and in a dry place
Combustibility	Incombustible
Mixing ratio	4.5 - 5 liters of water per 15 kg SPATORELA
Powder density	1.6 gr/cm <sup>3</sup>
pH of the mixture	12
Pot life	3 - 4 hours
Application temperature	+5°C to +35°C
Maximal thickness for one layer	1mm
Standby for the second layer application	After 60 - 90 min
Standby for rubbing	24 hours
Standby for painting	3 - 4 Weeks

#### FINAL DATA

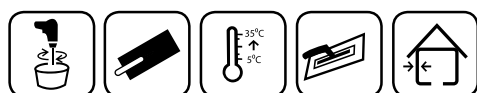
Resistance to compression after 28 days	≥ 4,5 N/mm <sup>2</sup>
Flexural resistance after 28 days	≥ 1,7 N/mm <sup>2</sup>
Adhesion strength to concrete	≥ 0,5 N/mm <sup>2</sup>

## 5.4 GROUT FOR FILLING GYPSUM JOINTS

### SPATORELLA GIPS



Unit of measurement	Pieces/Pallet	Consumption	Color/other specifications
5 kg/bag 15 kg/sack	4 pcs/box 80 pcs/pallet	- 1 kg/m <sup>2</sup>	white -



#### SPATORELLA GIPS

Stucco for filling joints between gypsum-board panels.

#### TECHNICAL FEATURES

- Gypsum-based stucco, composed of hydrated lime, marble powder of selected granulometry and special additives.
- Gypsum-based stucco, used together with the covering tapes to stucco joints between gypsum-board tiles, to stucco joints and cracks in finished concrete surfaces, to stucco concrete surfaces with or without porosity.
- To realize finishes in gypsum-based supports and in gypsum panels.
- It is characterized by an excellent workability, effortless opening and non-slip, which facilitates the application in vertical surfaces.
- For indoor environments.
- Easily rubbed with sandpaper.
- In conformity with EN 132791.

#### AREA OF APPLICATION

- It is used together with the covering tapes to stucco joints between gypsum-board tiles, to stucco joints and cracks in finished concrete surfaces.
- To stucco concrete surfaces with or without porosity.



#### TECHNICAL DATA

Form	Powder
Color	White
Storage	12 months in original packaging and in a dry place
Combustibility	Incombustible
Mixing ratio	7.5-8 liters of water per 25 kg Gypsum Spatorella
Pot life	1.5-2 hours
pH of the mixture	12
Application temperature	from +5°C to +35°C
Maximal thickness for one layer	1 mm
Standby for rubbing	after 24 hours
Standby for painting	after 3-4 weeks

#### FINAL DATA

Resistance to compression according to EN 1015-11	≥ 3,5 N/mm <sup>2</sup>
Flexural resistance according to EN 1015-11	≥ 1.9 N/mm <sup>2</sup>
Adhesion strength in gypsum according to EN 1015-12	≥ 0.5 N/mm <sup>2</sup>





## **06. INDUSTRIAL MORTARS FOR MASONRY AND PLASTERING**

## 6.1 MORTARS FOR PLASTERING

### MORTEL GP-08



Unit of measurement	Pieces/Pallet	Consumption	Color/other specifications
40 kg/sack	42 cp/pallet	1,5 Kg/m <sup>2</sup> /mm	Grey
100 Kg/Bulk	Silos	--	--



#### MORTEL GP 08

Basic filling material for brick or block walls for indoor and outdoor environments

#### TECHNICAL FEATURES

Powder material, with cement, lime, stone sand of selected granulometry, synthetic resins and special additives.

- It is characterized by an excellent workability.
- High mechanical resistance
- Free of vertical slip
- Adhesion abilities in walls and ceilings

#### AREA OF APPLICATION

It is used as a basic mortar to stucco all types of supports, such as: brick or block walls, etc. The product is applied through a machinery or hand. During the application of product, the support and environment temperature should be from +5°C up to +35°C.

#### PREPARATION OF THE SUPPORT

The support where the material will be applied must be dry, clean, uniform, absorbent, and stable. There should be no external residues, such as: oils, varnishes, petroleum, etc. On the support where the material will be applied should be no such phenomena as fluorescence.

#### MIXTURE PREPARATION

Mix 25 Kg powder filling mortar with 6.5 - 7 liters of water through an electric agitator or manually, until you get a mixture appropriate for the required application. You can also work with a pump.

#### MANNER OF PRODUCT APPLICATION

The product is applied manually, with a trowel or mechanically with a pump. When the product is applied with a pump you should pay attention to the consistency of processing. Do not add other materials, except for Latex. In case of longer pauses, the agitator should be left empty and be cleaned. Fresh mortar should be processed within 2 hours. Protect the bricks and mortar (especially, during work interruption) from rain. In cases of high temperatures, it is better to slightly water the mortar before it gets dried, so as not to lose its water.

#### Reinforcement with Latex

To improve the adhesiveness, resistance to water, plasticity, flexibility, mechanical strength, etc., the mortar can be reinforced with Latex additive. The mixing ratio is 1: 5 in water.


**TECHNICAL DATA (IN +23°C AND 50% U.R.)**

Form	Powder
Color	Grey
Storage	12 months in original packaging and in a dry place
Combustibility	Incombustible
Mixing ratio	5 liters of water per 25 kg
Mixture density	1.5 gr/cm <sup>3</sup>
Consistency mixture	Thixotropic
Application temperature	+5°C to +35°C
Pot life	3 - 4 hours
Working time	30 min
Maximal thickness for one layer	2 cm
Thermal conductivity according to EN 1745	0,28 W / mK
Solidification start	385 min

**FINAL DATA**

Resistance to compression after 7 days	≥ 3.5 N/mm <sup>2</sup>
Resistance to compression after 28 days	≥ 5.3 N/mm <sup>2</sup>
Resistance to salts	Good



## 6.1 MORTARS FOR PLASTERING

### MORTEL GP-10



Unit of measurement	Pieces/Pallet	Consumption	Color/other specifications
25 kg/sack 100 kg/bulk	54 pcs/pallet silos	1.5 kg/m <sup>2</sup> /mm -	Grey -



#### MORTEL GP 10

Basic filling material for brick or block walls for indoor and outdoor environments

#### TECHNICAL FEATURES

Powder material, with cement, lime, stone sand of selected granulometry, synthetic resins and special additives.

- It is characterized by an excellent workability.
- High mechanical resistance
- Free of vertical slip
- Adhesion abilities in walls and ceilings

#### AREA OF APPLICATION

It is used as a basic mortar to stucco all types of supports, such as: brick or block walls, etc. The product is applied through a machinery or hand. During the application of product, the support and environment temperature should be from +5°C up to +35°C.

#### PREPARATION OF THE SUPPORT

The support where the material will be applied must be dry, clean, uniform, absorbent, and stable. There should be no external residues, such as: oils, varnishes, petroleum, etc. On the support where the material will be applied should be no such phenomena as fluorescence.

#### MIXTURE PREPARATION

Mix 25 Kg powder filling mortar with 6.5 - 7 liters of water through an electric agitator or manually, until you get a mixture appropriate for the required application. You can also work with a pump.

#### MANNER OF PRODUCT APPLICATION

The product is applied manually, with a trowel or mechanically with a pump. When the product is applied with a pump you should pay attention to the consistency of processing. Do not add other materials, except for Latex. In case of longer pauses, the agitator should be left empty and be cleaned. Fresh mortar should be processed within 2 hours. Protect the bricks and mortar (especially, during work interruption) from rain. In cases of high temperatures, it is better to slightly water the mortar before it gets dried, so as not to lose its water.

#### Reinforcement with Latex

To improve the adhesiveness, resistance to water, plasticity, flexibility, mechanical strength, etc., the mortar can be reinforced with Latex additive. The mixing ratio is 1: 5 in water.



#### TECHNICAL DATA (IN +23°C AND 50% U.R.)

Form	Powder
Color	Grey
Storage	12 months in original packaging and in a dry place
Combustibility	Incombustible
Mixing ratio	5 liters of water per 25 kg
Mixture density	1.5 gr/cm <sup>3</sup>
Consistency mixture	Thixotropic
Application temperature	+5°C to +35°C
Pot life	3 - 4 hours
Working time	30 min
Maximal thickness for one layer	2 cm
Thermal conductivity according to EN 1745	0,28 W / mK
Solidification start	385 min

#### FINAL DATA

Resistance to compression after 7 days	≥ 3.5 N/mm <sup>2</sup>
Resistance to compression after 28 days	≥ 5.3 N/mm <sup>2</sup>
Resistance to salts	Good



## 6.1 MORTARS FOR PLASTERING

### MORTEL ANTIQUE



Unit of measurement	Pieces/Pallet	Consumption	Color/other specifications
25 kg/sack	54 pcs/pallet	1.5 kg/m <sup>2</sup> /mm	White



#### MORTEL Antique

Cement-based with special additives mortar for stuccoing and finishes, giving an antique effect.

#### DESCRIPTION

MORTEL ANTIQUE is a pre-prepared, cement-based product, reinforced with modified polymers, without corrosive ingredients, suitable for internal and external use, offering:

- Good resistance to consumption.
- Good bond with the surface where it will be applied.
- High resistance to moisture.
- Good workability.
- In conformity with EN 998 – 1 standard.

#### AREA OF APPLICATION

MORTEL ANTIQUE is used to repair antique stuccos, to repair masonries, etc. MORTEL ANTIQUE is applied up to 2cm of thickness for large scale applications and up to 5 cm for localized repairs.

#### INSTRUCTIONS FOR USE

##### 1. Surface

The surface where the product will be applied should be clean, free of dust, oil and other impurities. Water the surface before applying MORTEL ANTIQUE.

##### 2. Application

MORTEL ANTIQUE is added to water by stirring it continuously until you acquire a homogeneous mixture. The material is applied by hand if it is a mortar and by pump or trowel if it is a finishing coat.

#### CONSUMPTION

Approximately 15 kg/m<sup>2</sup> for cm thickness.

#### PACKAGING

MORTEL ANTIQUE is supplied in sacks of 25 Kg.

#### SHELF-LIFE STORAGE

12 months after manufacture date if the product is stored in its original and unopened packaging, in environments protected by moisture and frost.



#### TECHNICAL DATA (IN 23°C AND 50% U.R)

Form	Powder
Color	White
Pot life	4 h at 20°C
Water demand	4.5 – 5.5 l/25 kg
Dry mortar density	1,55 ± 0,10 kg/l
Fresh mortar density	1,85 ± 0,10 kg/l
Resistance in compression	> 5.2 N/mm <sup>2</sup>
Flexural strength	> 2.5 N/mm <sup>2</sup>
Adhesive strength	0.5 N/mm <sup>2</sup>
Capilarity water absorption	0,30 kg*m-2 * h-0, 5
Reaction to fire	Euroclass A1
Application temperature	+5°C to +35°C



## 6.1 MORTARS FOR PLASTERING

### MORTEL GP-10 FAST



Unit of measurement	Pieces/Pallet	Consumption	Color/other specifications
25 kg/sack	54 pcs/pallet	1.5 kg/m <sup>2</sup> /mm	Grey



#### MORTEL GP - 10 FAST

Fast drying, filling material for brick or block walls for indoor and outdoor environments

#### TECHNICAL FEATURES

Powder material, with cement, lime, stone sand of selected granulometry, synthetic resins and special additives.

- It is characterized by an excellent workability.
- High mechanical resistance
- Free of vertical slip
- Adhesion abilities in walls and ceilings

#### AREA OF APPLICATION

It is used as a basic mortar to stucco all types of supports, such as: brick or block walls, etc. The product is applied with hand. During the application of product, the support and environment temperature should be from +5°C up to +35°C.

#### PREPARATION OF THE SUPPORT

The support where the material will be applied must be dry, clean, uniform, absorbent, and stable. There should be no external residues, such as: oils, varnishes, petroleum, etc. On the support where the material will be applied should be no such phenomena as fluorescence.

#### MIXTURE PREPARATION

Mix 25 Kg of filling powder mortar with 5 – 5.5 liters of water, through an electric agitator or manually, until you acquire a mixture which is appropriate for the required application.



#### APPLICATION

The product is applied manually, or with a trowel. Do not mix it with other materials, except for Latex. In case of longer pauses, the agitator should be left empty and be cleaned. Fresh mortar should be processed within 1 hour. Protect the bricks and mortar (especially, during work interruption) from rain. In cases of high temperatures, it is better to slightly water the mortar before it gets dried, so as not to lose its water.

#### Reinforcement with Latex

To improve the adhesiveness, resistance to water, plasticity, flexibility, mechanical strength, etc., the mortar can be reinforced with Latex additive. The mixing ratio is 1: 5 in water (see technical sheet of Latex).

#### CONSUMPTION

Approximately 15 kg/m<sup>2</sup> for cm thickness.

#### PACKAGING

MORTEL GP 10 FAST is supplied in sacks of 25 Kg.

#### SHELF-LIFE STORAGE

12 months after manufacture date if the product is stored in its original and unopened packaging, in environments protected by moisture and frost.

**TECHNICAL DATA (IN 23°C AND 50% U.R)**

Form	Powder
Color	Grey
Storage	12 months in original packaging and dry place
Combustibility	Incombustible
Mixing ratio	5-5.5 liters of water per 25 kg masonry mortar
Mixture density	1.9 gr/cm <sup>3</sup>
Consistency mixture	Thixotropic
Application temperature	+5°C to +35°C
Pot life	1 hours
Working time	45 minutes
Maximal thickness for one layer	1.5 cm
Solidification start	60 min



## 6.1 MORTARS FOR PLASTERING

### MORTEL GP-30



Unit of measurement	Pieces/Pallet	Consumption	Color/other specifications
25 kg/sack 100 kg/bulk	54 pcs/pallet silos	1.5 kg/m <sup>2</sup> /mm -	Grey -



#### MORTEL GP - 30

Basic filling material for brick or block walls for indoor and outdoor environments

#### TECHNICAL FEATURES

Powder material, with cement, lime, stone sand of selected granulometry, synthetic resins and special additives.

- It is characterized by an excellent workability.
- High mechanical resistance
- Free of vertical slip
- Adhesion abilities in walls and ceilings

#### AREA OF APPLICATION

It is used as a basic mortar to stucco all types of supports, such as: brick or block walls, etc. The product is applied through a machinery or hand. During the application of product, the support and environment temperature should be from +5°C up to +35°C.

#### PREPARATION OF THE SUPPORT

The support where the material will be applied must be dry, clean, uniform, absorbent, and stable. There should be no external residues, such as: oils, varnishes, petroleum, etc. On the support where the material will be applied, should be no such phenomena as fluorescence.

#### MIXTURE PREPARATION

Mix 25 Kg of powder Mortel GP - 30 with 5.5-6 liters of water through an electric agitator or manually until acquiring an appropriate mixture for the required application. You can also work with a pump.

#### APPLICATION

The product is applied manually, with a trowel or mechanically with a pump. When the product is applied with a pump you should pay attention to the consistency of processing. Do not add other materials, except for Latex. In case of long pauses, the agitator should be left empty and be cleaned. Fresh mortar should be processed within 2 hours. Protect the bricks and mortar (especially, during work interruption) from rain. In cases of high temperatures, it is better to slightly water the mortar before it gets dried, so as not to lose its water.

#### Reinforcement with Latex:

To improve the adhesiveness, resistance to water, plasticity, flexibility, mechanical strength, etc., the mortar can be reinforced with Latex additive. The mixing ratio is 1: 5 in water (see technical sheet Latex).

#### CONSUMPTION

Approximately 15 kg/m<sup>2</sup> for cm thickness.

#### PACKAGING

MORTEL GP 30 is supplied in sacks of 25 Kg.

#### SHELF-LIFE STORAGE

12 months after manufacture date if the product is stored in its original and unopened packaging, in environments protected by moisture and frost.



#### TECHNICAL DATA (IN +23°C AND 50% U.R.)

Form	Powder
Color	Grey
Storage	12 months in original packaging and in a dry place
Combustibility	Incombustible
Mixing ratio	5.5-6 liters of water per 25 kg masonry mortar
Mixture density	1.5 g/cm <sup>3</sup>
Consistency mixture	Thixotropic
Application temperature	+5°C to +35°C
Pot life	3-4 hours
Working time	2 hours
Maximal thickness for one layer	3 cm
Solidification start	400 min



## 6.1 MORTARS FOR PLASTERING

### MORTEL GP-100 PLUS



Unit of measurement	Pieces/Pallet	Consumption	Color/other specifications
25 kg/sack 5 kg/plastic can	54 pcs/pallet 60 plastic cans/ pallet	1.5 kg/m <sup>2</sup> /mm 1:5	White -



#### MORTEL GP - 100 PLUS

Bi-component, cement-based mortar, with synthetic resins and special additives.

#### FEATURES

Cement powder component A and synthetic resin Component B, for repairs with high mechanical resistance, for filling thicknesses up to 60 mm / layer; it does not shrink. It is used for indoor and outdoor applications. It offers excellent workability, adhesiveness, resistance to frost, strokes and moisture. Thanks to the hydraulic connections, the special polymers, selected inert materials and synthetic fibers it contains, it does not crack or slip in large thicknesses.

#### AREA OF APPLICATION

MORTEL GP - 100, repairs all types of irregular constructions up to a thickness of 6 cm, with one layer, without molds, and is suitable for all types of concrete repair works, repairs of broken corners of ladders, balconies, columns, holes, gutters creation.

#### MANNER OF APPLICATION

##### 1. Surface preparation

The substrate must be free from dust and rotten materials and should be thoroughly wetted or primed with the micro- molecular stabilizer BETON CONTACT before its application.

##### 2. Application

Pour the cement powder into clean water, in a ratio of 5 Kg powder with 5,0 lt water. Stir them with a low-rotation power drill or with a mixer until a homogenous mixture is created, which is suitable for any type of use. The mixture remains workable for 3 hours and is applied with a trowel for repairs or with a machine if the surfaces need a covering material with high mechanical resistance.



#### TECHNICAL DATA (IN +23°C AND 50% U.R.)

Form - Color	Cement- powder, grey
Toxic / flammable (according to EN 88/379)	No
Specific weight of dry powder	1,47 ±0,05 kg/lt
Specific weight of wet powder	2,00 ±0,05 kg/lt
Maximal grain diameter	1.5 mm
Application temperature	From +5°C to +35°C
Thermal resistance	From -30°C to +80°C
Pot life in container	3 hours
Maximum thickness of application	6 hours

#### MECHANICAL RESISTANCE

Resistance to flexion after 28 days, according to EN 196-1	18,00 ± 1,00N/mm <sup>2</sup>
Resistance to compression after 28 days, according to EN 196-1, after	
• 48 hours	32,00 ± 3,00 N/mm <sup>2</sup>
• 7 days	40,00 ± 2,00 N/mm <sup>2</sup>
• 28 days	60,00 ± 1,00 N/mm <sup>2</sup>

#### CONSUMPTION

About 15 kg/m<sup>2</sup>/cm thickness of layer

#### PACKAGING

MORTEL GP 100 is supplied in sacks of 25 Kg.

#### SHELF-LIFE STORAGE

12 months after manufacture date if the product is stored in its original and unopened packaging, in environments protected by moisture and frost.



## 6.2 MORTARS FOR MASONRY

### MORTEL VP-04



Unit of measurement	Pieces/Pallet	Consumption	Color/other specifications
25 kg/sack	54 pcs/pallet	200-250 kg/m <sup>2</sup> / mm	Grey



#### MORTEL VP 04

Material that serves to bond bricks in wall, for indoor and outdoor environments

#### TECHNICAL FEATURES

Powder, adhesive material, with cement, lime, stone sand with selected granulometry, synthetic resins and special additives.

- It is characterized by an excellent workability.
- Easily pliable and applicable
- Good adhesion on the support

#### AREA OF APPLICATION

It is used for bonding in walls of bricks and blocks, in all types of supports. The product is applied by machinery or hand. During the application of the product, the temperature of support and environment should be from +5°C up to +35°C.

#### PREPARATION OF THE SUPPORT

The support where the material will be applied must be dry, clean, uniform, absorbent, and stable. There should be no external residues, such as: oils, varnishes, etc. It is not allowed to apply the product on a frozen support (frozen bricks). When the supports (tiles) are dried and characterized by a high water-suction quality, it is suggested to spray the support with water before applying the product.

#### MIXTURE PREPARATION

Mix 25 Kg of the product by pouring it into water manually or mechanically. Stir it until you acquire a mixture with the required workability.

#### APPLICATION

The product is applied manually with a trowel or mechanically with a machine. When the product is applied with a machine you should pay attention to the consistency of the mixture and do not mix it with other materials. It is suggested to check the consistency of mortar processing for every fill of crane bucket. In cases of long pauses, the mixing machine should be left empty and cleaned. Fresh mortar should be processed within two hours. Protect the bricks and mortar (especially, during work interruption) from rain.

#### CONSUMPTION

Approximately 15 kg/m<sup>2</sup> for cm thickness.

#### PACKAGING

MORTEL VP 04 is supplied in sacks of 25 Kg.

#### SHELF-LIFE STORAGE

12 months after manufacture date if the product is stored in its original and unopened packaging, in environments protected by moisture and frost.



#### TECHNICAL DATA (IN +23°C AND 50% U.R.)

Form	Powder
Color	Grey
Shelf-life storage	12 months in original packaging and in a dry place
Combustibility	Incombustible
Mixing ratio	6-6.5 liters of water per 25 kg masonry mortar
Mixture density	1.85 g/cm <sup>3</sup>
Application temperature	+5°C to +35°C
Pot life	3-4 hours
Working time	30 min

#### FINAL DATA

Resistance to flexion	≥ 1.5 N/mm <sup>2</sup>
Resistance to compression	≥ 3.5 N/mm <sup>2</sup>



## 6.3 GYPSUM- BASED MORTAR

### GIPSPUTZ



Unit of measurement	Pieces/Pallet	Consumption	Color/other specifications
25 kg/sack 100 kg/bulk	54 pcs/pallet silos	1.3 kg/m <sup>2</sup> /mm -	White -



#### GIPSPUTZ

Gypsum-based basic filling mortar, with contents of polymers and special additives for brick or block walls and for indoor environments.

#### TECHNICAL FEATURES

Gypsum-based powder material, with hydrated lime, selected granulometry, synthetic resins and special additives for indoor applications.

- No vertical slip.
- Excellent workability.
- High mechanical resistance.
- In conformity with EN 13279

#### AREA OF APPLICATION

It is used with pump or hand, as a basic mortar, to plaster brick or block walls, in indoor environments. In the same time, it enables the realization of filling and finishing, without the need for a second layer application.

#### PREPARATION OF THE SUPPORT

The support where the material will be applied must be leveled and free of external materials, such as: grease, varnishes, paints, etc.

#### MIXTURE PREPARATION

Mix 25 Kg Gipsputz with 7-8 liters of water through a low-rotation electric agitator. Stir it until you acquire a homogeneous mixture. It is recommended to let the acquired mixture to settle for 10 minutes and to stir it again before its use. Mixing can also be done through the pump with which you are going to apply the product.

#### APPLICATION

The product is applied manually with a trowel or mechanically with a pump. When the product is applied with a pump, you should pay attention to the consistency of the mixture and do not mix it with other materials.

#### AREA OF APPLICATION

- It is used with a pump or hand as a basic mortar to stucco brick or blocks walls, in indoor environments.
- At the same time, it enables the realization of filling and finishes without the need for a second layer.
- The support is treated with Gips PRIMER.

#### CONSUMPTION

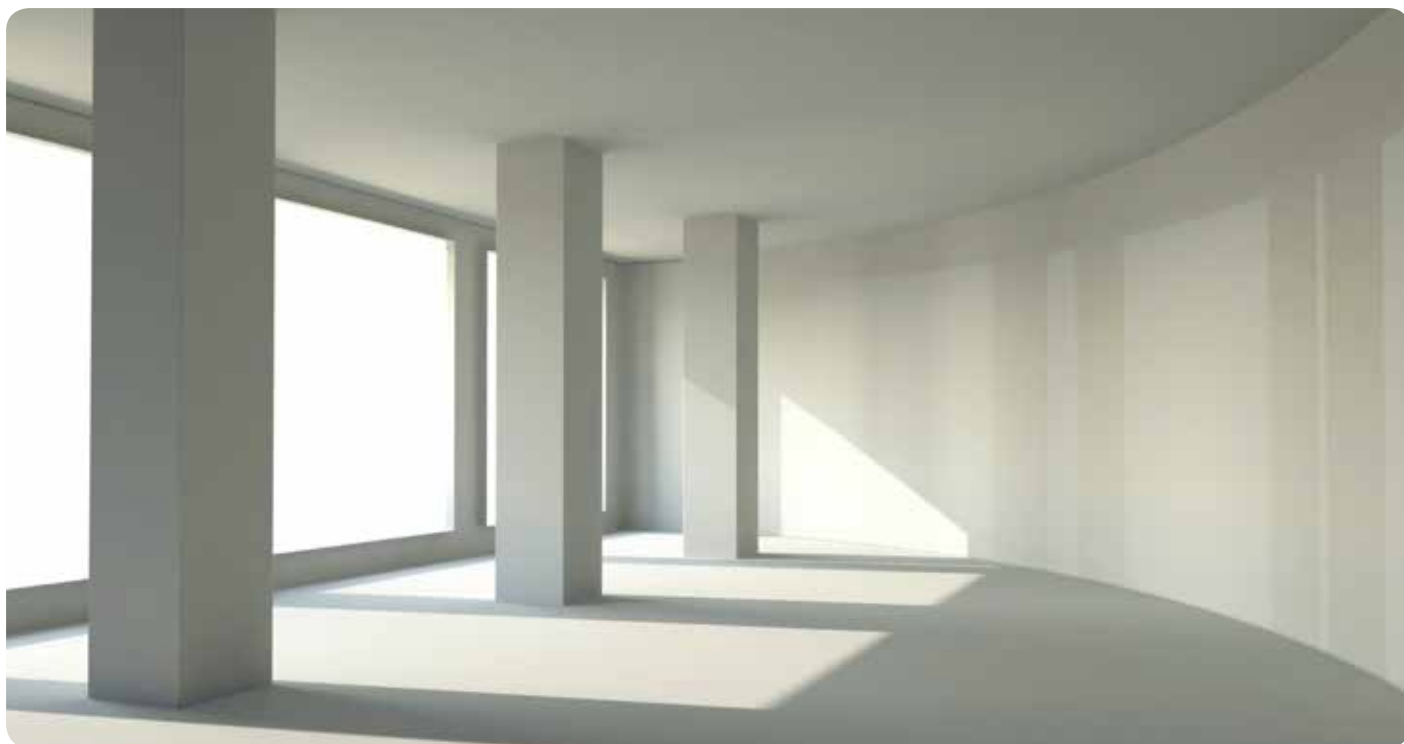
Approximately 15 kg/m<sup>2</sup> for cm thickness.

#### PACKAGING

GIPSPUTZ is supplied in sacks of 25 Kg.

#### SHELF-LIFE STORAGE

12 months after manufacture date if the product is stored in its original and unopened packaging, in environments protected by moisture and frost.



#### TECHNICAL DATA (IN +23°C AND 50% U.R.)

Forma	Powder
Color	White
Shelf-life storage	12 months in original packaging and dry place
Density	1000 kg/m <sup>3</sup>
Thermal conductivity according to EN 1745	0,28 W/mK
Flexural resistance according to EN 1015-11	4,0 N/mm <sup>2</sup>
Processing time	130 min after pouring mortar
Standby after filling	Maximum 20 min
Environment and surface temperatures	Above +5°C to +35°C
Average thickness	12 mm
Minimal thickness	7 mm





## 07. PRIMERS

## 7.1 DRY LEVELING PRIMER

### TECNOFIX



Unit of measurement	Pieces/Pallet	Consumption	Color/other specifications
25 kg/sack	54 pcs/pallet	1.5-2.5 kg/m <sup>2</sup>	White



#### TECNOFIX

Leveling material for surfaces that will be coated with decorative layer.

#### FEATURES

- It is a powder material, with cement, lime, sand of selected granulometry, hydrophobic synthetic resins and specific additive.
- It characterized by an excellent opening and workability, thus facilitating the application of product in supports filled with traditional or pre-prepared mortar.
- It offers long time of workability, very good adhesion with the support and great leveling of the surface.
- It creates a great waterproof in the surface where it is going to be applied, thus facilitating even more the application of decorative coating.
- It creates a good bond between the basic mortar and decorative coating.
- It is applicable for thicknesses up to 3mm.

#### AREA OF APPLICATION

It is used to level and isolate surfaces that are going to be coated with decorative coating (GRAFIATO or DECORTX), in indoor and outdoor environments. It is applied in traditional mortar-based supports, or pre-prepared mortar supports, which are lime and cement-based. The surface where the product has been applied can be covered with decorative coating of mineral or synthetic nature.

#### IMPORTANT DATA

- Do not add other components such as cement, lime, etc, given product.
- Do not apply on previously painted surfaces.
- Do not apply on plastic surfaces or coatings.
- Do not apply on surfaces with greater thickness than 3 mm.
- Do not add water after the mixture is prepared.
- It should not be used to level tiles.
- It should be applied at temperatures from +5°C to +35°C. EN 998-1
- Do not apply in places where there are ceramic coatings.
- Do not apply in gypsum-based surface.

-Do not apply on surfaces that are easily breakable or destroyable.

#### SUPPORT PREPARATION

The surface or support where TECNOFIX will be applied should be leveled and stable. Surfaces thicker than 3mm should be leveled before the product application.

#### APPLICATION

Spread the material with a metallic spatula in order to ensure a uniform opening in the entire surface. The second layer is applied 30 minutes after the application of the first layer. The environment temperature significantly affects workability time of product; the lower the temperature, the longer the workability time.

#### Reinforcement with Latex:

To improve the adhesiveness, imperviousness to water, plasticity, flexibility, mechanical strength, etc., TECNOFIX can be reinforced with Latex additive. The mixing ratio is 1: 5 with water. (see Latex technical sheet)

#### CLEANING

The cleaning of work tools and hands should be done before the product is completely dried.

#### CONSUMPTION

Approximately 1.5 kg/m<sup>2</sup> for mm thickness.

#### PACKAGING

TECNOFIX is supplied in sacks of 25 Kg.

#### SHELF-LIFE STORAGE

12 months after manufacture date if the product is stored in its original and unopened packaging, in environments protected by moisture and frost.


**TECHNICAL DATA (IN +23°C AND 50% U.R.)**

Form	Powder
Color	White
Shelf-life storage	12 months in original packaging and in a dry place
Combustibility	Incombustible
Mixture density	7.5-8 liters of water per 15 kg Tecnofix
Mixture density	1.82 g/cm <sup>3</sup>
pH of the mixture	12
Application temperature	+5°C to +35°C

**FINAL DATA**

Pot life	3-4 hours
Application temperature	+5°C to +35°C
pH of the mixture	12
Resistance to compression	1,5-2 mm
Standby for the second layer application	4-6 hours
Resistance to compression	≥ 15,0 N/mm <sup>2</sup>
Flexural resistance	≥ 3,5 N/mm <sup>2</sup>
Resistance to moisture	good



## 7.2 PRIMER FOR TREATING SURFACES PRIOR TO THE APPLICATION OF FINISHES

### TECNOFIX LIQUID



Unit of measurement	Pieces/Pallet	Consumption	Color/other specifications
5 kg/bucket	60 pcs/pallet	0.2-0.25 kg/m <sup>2</sup>	White
20 kg/bucket	27 pcs/pallet	0.2-0.25 kg/m <sup>2</sup>	-



#### CHARACTERISTIC

- Acrylic resin-based, liquid material, resistant to alkalis.
- Treatment of surfaces with Tecnofix Liquid provides excellent workability and notable facilitation in the application of decorative layers.
- Creates an excellent insulation and bond in surfaces treated with decorative layer.
- It is a ready to use, white primer.
- All technical FEATURES of decorative coatings that will be used are tightly connected to the qualities of the primer which is going to be applied beforehand.
- TECNOFIX LIQUID reduces significantly the absorbent quality of the surface towards water.
- It uniform the absorbing rate of the surface where it is going to be applied.

#### PRODUCT FEATURES

##### Adhesive properties:

- Reduces the absorbent property of the support
- Neutralizes pH value
- Free of solvents.

#### AREA OF APPLICATION

It used as a primer on surfaces which will then be painted or coated with finishes (BONIFIN, FINO CLASSIC etc.), or with decorative coatings (GRAFIATO, DECORTX etc.).

#### PREPARATION OF SUPPORT

Supports where TECNOFIX LIQUID will be applied should be beforehand made clean, free of dust, petroleum, oil, varnishes, wax residues and anti-adhesion materials. Cleaning of oils, varnishes, wax or anti-adhesion materials is done mechanically or manually.

#### PRODUCT PREPARATION

The product should be stirred manually in the bucket, and then it is ready to use. It can be diluted with water up to 10%.

#### MANNER OF APPLICATION

The product is applied by brush or roller in a uniform manner in the entire surface. You should wait for at least 12 hours for TECNOFIX LIQUID to get dried (depending on the temperature) before applying the final product on the support. Low temperatures and moisture presence significantly increase the drying time for the product. It should not be applied in temperatures lower than +5°C and higher than +35°C.

#### CONSUMPTION

Approximately 0.25 kg/m<sup>2</sup>

#### PACKAGING

TECNOFIX LIQUID is supplied in sacks of 5 kg and 20 Kg.

#### SHELF-LIFE STORAGE

24 months after manufacture date if the product is stored in its original and unopened packaging, in environments protected by moisture and frost.

**TECHNICAL DATA (IN 23°C AND 50% U.R)**

Form	Liquid
Color	White
Storage	24 months in original packaging and in a dry place
Combustibility	incombustible
Density of fresh mortar	1,2 g/cm <sup>3</sup>
Consumption	0,2-0,25 Kg/cm <sup>3</sup>
pH of mixture	7±1
Application temperature	+5°C to +35°C



## 7.3 PRIMER TO TREAT SURFACES PRIOR TO THE APPLICATION OF TILES

### DW PRIMER



Unit of measurement	Pieces/Pallet	Consumption	Color/other specifications
1 kg/plastic can	12 pcs/box	0.2-0.3 kg/m <sup>2</sup>	Yellow
5 kg/plastic can	4pcs/box	-	-
10 kg/plastic can	60 pcs/pallet	-	-



#### DESCRIPTION

DW Primer is an acrylic resin -based primer, which is used to give the support the desired qualities before applying cement-based tiles adhesive.

#### AREA OF APPLICATION

DW PRIMER can be applied as a primer layer in various supports, such as: old tiles, smooth surfaces, natural stones, floor surfaces of cement, wood and metal.

#### INSTRUCTIONS FOR PREPARATION

Support: the surface where DW PRIMER will be applied must be free of moisture, dust and without parts painted with oil.

#### APPLICATION

DW PRIMER is ready for use, and is applied directly to the support by means of a roller or brush. Tile adhesive can be applied after an hour, as long as DW PRIMER is sticky.

#### SHELF-LIFE STORAGE

The lifespan of product is 18 months after manufacture date, if stored in its original packaging and protected by frost and direct exposure to sun.

#### NOTE

Environment temperature during application should be between +5°C and 35°C. The maximal allowed time after application is 12 hours. If this time passes, then a new layer is necessary before the application of tile adhesive. DW PRIMER is indispensable when adhering tile to tile.



### HYDRO PRIMER



Unit of measurement	Pieces/Pallet	Consumption	Color/other specifications
1 kg/plastic can	12 pcs/box	0.2-0.3 kg/m <sup>2</sup>	Yellow
5 kg/plastic can	4pcs/box	-	-
10 kg/plastic can	60 pcs/pallet	-	-



#### DESCRIPTION

Elastomeric primer for surfaces where waterproof will be applied. Aqueous polymer dispersion is applied on porous surfaces thus by significantly increasing adhesiveness between elastomeric-based hydro isolators and support.

HYDRO PRIMER has penetrating properties in all pores of the surface where waterproof will be applied, thus improving and enhancing the adhesive ability between the waterproof and the surface will be hydro-insulated.

#### AREA OF APPLICATION

HYDRO PRIMER is a ready to use PRIMER, which reinforces considerably waterproof adhesion on surfaces made of concrete, mortar, plaster and gypsum panels.

#### APPLICATION - CONSUMPTION

The surfaces to be treated with PRIMER should be completely dry and clean free of presence of dust. It is recommended to stir it before application. It is easily applicable with a brush or roller on surfaces, before the application of elastomeric waterproof.

**Consumption:** 200 - 300 g/m<sup>2</sup>, depending on the porosity of the surface to be treated.

#### SHELF-LIFE STORAGE

The product can be stored for 18 months after manufacture date in its original packaging and in a dry place, at temperatures between +5°C to +35°C. You should avoid exposing the product at low temperatures (freezing) and high temperatures.

#### ATTENTION!

The product is recommended to be applied in the limits of temperatures from +5°C to +35°C



## 7.4 PRIMER FOR THE TREATMENT OF SURFACES BEFORE WATERPROOF APPLICATION

### RESIN PRIMER RE 1800



Unit of measurement	Pieces/Pallet	Consumption	Color/other specifications
Component A 1 Kg	12 psc/box	300 g/m <sup>2</sup>	Black
Component B 3 Kg	80 psc/pallet		



#### RESIN PRIMER RE 1800

Bi-component, water-based primer.

#### DESCRIPTION

RESIN PRIMER RE 1800 is a bi-component, water-based product. The product offers high physical and mechanical resistance, such as resistance to abrasion, resistance to water, acids, alkalis, petroleum products, etc. It also provides metallic surfaces protection against corrosion and rust.

#### AREA OF APPLICATION

RESIN PRIMER RE 1800 is used as a PRIMER on metallic surfaces to protect the metallic surface from moisture and corrosion.

#### INSTRUCTIONS FOR USE

The surface must be:

- Stable.
- Without the presence of materials that prevent connection, eg powder, loose particles, grease, etc. Also, it must be prepared according to the nature of the surface. After this, the surface should be well cleaned from dust with a vacuum cleaner.

#### APPLICATION PROCEDURE

Component A (resin) and component B (Hardener) are packed in two separate buckets, in predetermined proportion in weight ration. The entire quantity of component B should be added to component A. the stirring of the two components should be made for about 5 minutes, using low-speed a mixer (300 rotations/ min). It is important to stir very well near the sides and bottom of the bucket, so as to achieve a complete mixing of the two components and a uniform spread of the hardener. RESIN PRIMER RE 1800 is applied as it is, or diluted with water up to 10%. The product can be applied with brush or roller.

#### TECHNICAL DATA

Basis	bi-component epoxy resin
Color	Transparent
Viscosity (A)	100 mPa.s at +23°C
Viscosity (B)	2.000 mPa.s at +23°C
Viscosity (A+B)	600 mPa.s at +23°C
Density (A)	1,02 kg/lit
Density (B)	1,13 kg/lit
Density (A+B)	1,04 kg/lit
Mixing ratio (A:B)	1:3 by weight
Lifespan	approx. 60 min at +20°C
The minimum temperature of hardening	+8°C
Trafficable	after 18 h at +23°C
Final resistance	after 7 days at +23°C
Adhesion strength	> 4 N/mm <sup>2</sup>

#### CONSUMPTION

300 gr/m<sup>2</sup> per layer.

#### PACKAGING

It is supplied in metal boxes, A + B 4 kg.

#### SHELF-LIFE STORAGE

12 months if stored in original and unopened packaging, in dried places at temperatures between 5°C - 25°C.

### PU 88 PRIMER



Unit of measurement	Pieces/Pallet	Consumption	Color/other specifications
1 kg/box	12 pcs/box	0.2-0.3 kg/m <sup>2</sup>	1 kg
5 kg/box	4 pcs/box	-	5 kg
10 kg/box	60 pcs/pallet	-	10 kg



#### PU 88 PRIMER

Two component Polyurethane-Epoxy base primer.

#### DESCRIPTION

PU 88 Primer is a bi - component epoxy- based and water- based product. The product offers high physical and mechanical resistance, such as resistance to abrasion, resistance to water, acids, alkalis, petroleum products etc. It is used before the application of Izoelastic PU.

#### AREA OF APPLICATION

PU 88 PRIMER is used as a PRIMER when we use the product IZOELASTIC PU in waterproofing processes, in cases of terraces, etc.

#### INSTRUCTIONS FOR USE

The surface must be:

- Stable.
- Without the presence of materials that prevent connection, such as: dust, loose particles, grease, etc. Also, it must be prepared according to the nature of the surface. After this, the surface should be well cleaned from dust with a vacuum cleaner.

#### APPLICATION PROCEDURE

The product is ready for application and applied directly onto the floor surface through a roller or brush.

#### CONSUMPTION

300 gr/m<sup>2</sup> per layer

#### PACKAGING

It is supplied in metallic boxes of 5 Kg.

#### SHELF-LIFE STORAGE

12 months if stored in its original and unopened packaging, in dry places and in temperatures between 5°C - 25°C



## 7.5 PRIMER FOR JOINING MORTARS AND FINISHES ON THE CONCRETE

### BETON CONTACT



Unit of measurement	Pieces/Pallet	Consumption	Color/other specifications
5 kg/bucket 20 kg/bucket	60 psc/pallet 27 psc/pallet	0.2-0.25 kg/m <sup>2</sup> -	Copper -



#### BETON CONTACT

Bonding layer, used to treat smooth surfaces of concrete, for indoor and outdoor use.

#### TECHNICAL FEATURES

- Acrylic resin-base, liquid material used for the treatment of smooth concrete surfaces.
- It ensures a good bonding of concrete with the filling layers, such as: mortar, grout, stucco, waterproof, etc.
- The use of this material eliminates the need to use cement sprays in smooth concrete surface.
- The treatment of surfaces with BETON CONTACT ensures an excellent workability and notable facility in the application of the other coats.
- It is a ready for use product.
- Uniforms the absorbing rate of surface where it will be applied.

#### FEATURES OF PRODUCT WITH ADHESIVE PROPERTIES

- It reduces water-absorbing ability of the support
- Neutralizes the pH value
- No solvents in its composition

#### AREA OF APPLICATION

It used to treat smooth concrete surfaces which latter will be filled with filling mortar, grout, etc. It is used as insulation, fixer for surfaces which later on will be painted or coated with other layers, such as: mortar, grout, etc.

#### SUPPORT PREPARATION

The support where BETON CONTACT will be applied should be dry and clean free of dust, petroleum, wax and varnishes residues, or anti-adhesion materials. Cleaning of support is done manually or mechanically.

#### PRODUCT PREPARATION

The product must be stirred manually in a bucket, and after that it is ready to be used. If necessary, the product can be diluted with water up to 10%.

#### APPLICATION

The product is applied by brush or roller, thus creating a uniform opening in the entire surface. You should wait for at least 12 hours for BETON CONTACT to get dried, depending on the temperatures, before applying the following product on the surface. Low temperatures and moisture presence significantly increase the drying time. You should not apply it when the temperature of the support is lower than 5°C, and make sure to not water the support for the next 24 hours after application.

#### FINAL DATA

Form	Liquid
Color	Copper
Storage	12 months, in original packaging and dry place
Combustibility	incombustible
Application temperature	+5°C to +35°C
Density	1.4 kg/l



### FERRO PRIMER



Unit of measurement	Pieces/Pallet	Consumption	Color/other specifications
2 kg/box	10 psc/box	0.2-0.25 kg/m <sup>2</sup>	Copper



#### FERRO PRIMER

Cement-based, non-corrosive primer, reinforcer of iron alloys in construction structures.

#### DESCRIPTION

PRIMER FERRO can be applied as a reinforcer primer and protector in iron alloys, steel corrosion and rust, acting as a bonding layer between old concrete and repaired concrete.

#### AREA OF APPLICATION

-To protect steel in the construction structures during possible repairs of concrete structures that are damaged due to carbonization, earthquakes, etc.  
-To protect steel in structures where is thought to work in wet weather conditions.

#### BENEFITS

- High efficiency of corrosion
- Good mechanical properties
- Easy to apply
- Allow the concrete to perform a natural breathing
- No content of volatile substances
- No inflammatory, friendly to the environment and applicant.

#### TECHNICAL DATA

Form	cementitious powder
Color	redbrown
Water requirement	27% by weight
Bulk density of dry mortar	1.40 kg/l
Bulk density of fresh mortar	1.90 kg/l
Compressive strength	≥ 32.00 N/mm <sup>2</sup>
Flexural strength	≥ 8.00 N/mm <sup>2</sup>
Pot life	1 h at +20°C



## 7.6 NON-CORROSIVE PRIMER FOR IRON

### EPOMETAL W 5300



Unit of measurement	Pieces/Pallet	Consumption	Color/other specifications
Component A 1 Kg	12 psc/box	300 g/m <sup>2</sup>	Transparent
Component B 3 Kg	36 psc/pallet		



#### EPO METAL W 5300

Bi-component epoxy primer, water-based, with anti-corrosive properties.

#### DESCRIPTION

EPO METAL W 5300 is a bi-component, epoxy, water-based product. The product offers high physical and mechanical resistance, such as resistance to abrasion, resistance to water, acids, alkalis, petroleum products etc. It also gives metallic surfaces protection against corrosion and rust.

#### AREA OF APPLICATION

EPO METAL W 5300 is used as a PRIMER on metallic surfaces, to give the protection against moisture and corrosion.

#### INSTRUCTIONS FOR USE

##### The surface must be:

- Stable.
- Without the presence of materials that prevent the connection, such as dust, loose particles, grease, etc. Also, it should be prepared depending on the nature of the surface. After this, the surface should be thoroughly cleaned from dust with a vacuum cleaner.

#### APPLICATION PROCEDURE

Component A (resin) and component B (solidifier) are supplied in two separate buckets in a predetermined proportion by weight ratio. The entire quantity of component B should be added to component A. The stirring of the two components should continue for about 5 minutes, by using a low speed agitator (300 rotations/ min). It is important to stir well in the edges and bottom of the bucket so as to achieve a thorough mixture and a uniform distribution of the solidifier. 5300 W METAL EPO is applied as it is or diluted up to 10% with water. The product can be applied with a brush or roller.

#### TECHNICAL DATA

Base	bi-component, epoxy resin
Color	Transparent
Viscosity (A)	100 mPa.s at +23°C
Viscosity (B)	2.000 mPa.s at +23°C
Viscosity (A+B)	600 mPa.s at +23°C
Density (A)	1,02 kg/lit
Density (B)	1,13 kg/lit
Density (A+B)	1,04 kg/lit
Mixing ratio (A:B)	1:3 by weight
Pot-life	approximately 60 min at +20°C
Minimum temperature for hardening	+8°C
Trafficable	after 18 h at +23°C
Final Resistance	after 7 days at +23°C
Adhesive Strength	> 4 N/mm <sup>2</sup>

#### CONSUMPTION

300 gr/m<sup>2</sup> per layer.

#### PACKAGING

It is supplied in metallic boxes A+B 4 Kg.

#### SHELF-LIFE STORAGE

24 months if stored in its original and unopened packaging, in dry places and in temperatures between 5°C - 25°C



## 7.6 NON-CORROSIVE PRIMER FOR IRON

### FERROPROTECT 908



Unit of measurement	Pieces/Pallet	Consumption	Color/other specifications
1 kg/plastic can	12 pcs/box	0.3-0.5 kg/m <sup>2</sup>	White
5 kg/plastic can	4 pcs/box		
10 kg/plastic can	60 pcs/pallet		



#### FERROPROTECT 908

Primer with penetrating and protective properties for metallic structures and for the treatment of concrete surfaces.

#### FEATURES

Primer with penetrating and protective properties for metallic structures and for the treatment of concrete surfaces. Thanks to the product's formula, FERROPROTECT 908 has excellent adhesion and penetration in concrete surfaces, thus ensuring a good protection of the metallic structure in-depth, from the process of corrosion.

#### AREA OF APPLICATION

FERROPROTECT 908 is used to treat concrete surfaces. It helps to protect the metallic structure from chemical processes, such as: the process of carbonation and corrosion. It is applied for the protection of concrete in public works such as bridges, tunnels, etc.

#### MANNER OF PREPARATION

##### 1. Preparation of surface:

The support where FERROPROTECT 908 will be applied should be cleaned beforehand from powder, oil, varnishes, wax and anti-adhesion residues. The cleaning of oils, varnishes, wax or anti-adhesion materials is made mechanically or manually. Then, prime the surface by using FERROPROTECT 908 product.

#### PACKAGING

In 1 Kg, 5 Kg and 10 Kg plastic cans.

#### CONSUMPTION

250-300 gr/m<sup>2</sup>

#### SHELF-LIFE STORAGE

At least 18 months after manufacture date, in secured packaging, in dry, low-moisture and shady environments.



#### TECHNICAL DATA

Chemical base	Acrylic Dispersion
Specific weight of mixture	1,10±0,05 Kg/lt
Application temperature	from +10°C to +35°C

### EPOXY PRIMER W-800



Unit of measurement	Pieces/Pallet	Consumption	Color/other specifications
Component A 1 Kg/can	12 psc/box	0.5 g/m <sup>2</sup> /mm	Transparent
Component B 4 Kg/can	36 psc/pallet		



#### EPOXY PRIMER W-800

Two component, water-based, epoxy PRIMER.

#### DESCRIPTION

EPOXY PRIMER W-800 is a bi-component, water-based, epoxy product. The product offers high physical and mechanical resistance, such as resistance to abrasion, resistance to water, acids, alkalis, petroleum products etc.

#### AREA OF APPLICATION

EPOXY PRIMER W-800 is used as a varnish, to give gloss and resistance to water, acids, alkalis, etc. to surfaces on which it applies.

#### INSTRUCTIONS FOR USE

The surface must be:

- Stable.
- Without the presence of materials that prevent connection, such as powder, loose particles, grease, etc.
- Protected by negative pressures of moisture. Also it must be prepared according to the nature of the surface. After this, the surface should be well cleaned from dust with a vacuum cleaner.

#### APPLICATION PROCEDURE

Component A (resin) and component B (hardener) are packed in two separate buckets, in a predetermined proportion by weight ratio. The whole quantity of component B should be added to component A. The stirring of the 2 components should continue for about 5 minutes, using a low- speed mixer (300 revolutions / min). It is important to stir well in the sides and bottom of the bucket, in order to achieve a uniform distribution of the hardener and to achieve a complete mixing of the two components. EPOXY W-800 is applied as it is or diluted to 10% with water. The product can be applied with a brush or roller.

#### CONSUMPTION

300 gr/m<sup>2</sup> per layer.

#### PACKAGING

It is packed in metallic buckets A+B 5 Kg.

#### SHELF-LIFE STORAGE

24 months if stored in original and unopened packaging, in dried places at temperatures between 5°C - 25°C.

#### TECHNICAL DATA

Basis	2 component epoxy resin
Color	Transparent
Viscosity (A)	100 mPa.s at +23°C
Viscosity (B)	2.000 mPa.s at +23°C
Viscosity (A+B)	600 mPa.s at +23°C
Density (A)	1,02 kg/lit
Density (B)	1,13 kg/lit
Density (A+B)	1,04 kg/lit
Mixing ratio (A:B)	1:3 by weight
Lifespan	approximately 60 min at +20°C
The minimum temperature of hardening	+8°C
Trafficable	after 18 h at +23°C
Final resistance	after 7 days at +23°C
Adhesion strength	> 4 N/mm <sup>2</sup>

## 7.8 MULTIFUNCTIONAL EPOXY PRIMER

### EPOXY PRIMER W-4000



Unit of measurement	Pieces/Pallet	Consumption	Color/other specifications
1 kg/A&B 3 kg/A&B	12 pcs/box 36 buckets/pallet	0.2-0.3 kg/m <sup>2</sup> -	Transparent -



#### EPOXY PRIMER W 4000

Water-based, two component, epoxy primer.

#### DESCRIPTION

EPOXY PRIMER W - 4000 is a water-based, bi-component, epoxy primer. Is certified as a "Class II" for resistance to moisture, which makes it ideal for applications that are subject to negative pressure. The product offers high resistance to consumption. It is resistant water, acids, alkalis, petroleum products etc. EPOXY PRIMER W - 4000 can be applied to dried or slightly wet surfaces.

#### AREA OF APPLICATION

EPOXY PRIMER W - 4000 is used as a primer, and for the preparation of the surface with the addition of quartz sand –for repairs of cement-based surfaced, such as: concrete or insulating layers which will be covered with EPOFLOOR FG - 8700.

#### INSTRUCTIONS FOR USE

The surface must be:

- Stable.
- Without the presence of materials that prevent connection, eg dust particles loose, fats, etc.
- Protected against negative pressures of moisture.

Also, it must be prepared according to the nature of the surface. After that, surfaces must be thoroughly cleaned from dust with a vacuum.

#### APPLICATION PROCEDURE

Component A (resin) and component B (hardener) are packed in two separate buckets, in a predetermined proportion by weight ratio. The entire quantity of component B should be added to component A. The stirring of the 2 components should continue for about 5 minutes, using a low- speed mixer (300 revolutions / min). It is important to stir well in the sides and bottom of the bucket, in order to achieve a uniform distribution of the hardener and to achieve a complete mixing of the two components. EPOXY PRIMER W - 4000 is applied as it is or diluted to 10% with water. The product can be applied with a brush or roller.

#### CLEANING

Work tools are firstly washed with water and then wiped with paper.

#### SHELF-LIFE STORAGE

24 months if stored in original and unopened packaging, in dried places at temperatures between 5°C - 25°C.

#### PACKAGING

In 1 Kg, 4 Kg A + B



#### TECHNICAL DATA

Basis	2 component epoxy resin
Color	Transparent
Viscosity (A)	100 mPa.s at +23°C
Viscosity (B)	2.000 mPa.s at +23°C
Viscosity (A+B)	600 mPa.s at +23°C
Density (A)	1,02 kg/lit
Density (B)	1,13 kg/lit
Density (A+B)	1,04 kg/lit
Mixing ratio (A:B)	3:1
Lifespan	approximately 60 min at +20°C
The minimum temperature of hardening	+8°C
Trafficable	after 18 h at +23°C
Final resistance	after 7 days
Adhesion strength	> 4 N/mm <sup>2</sup>
Cleaning of work tools	Work tools are firstly washed with water and then wiped with paper.



## 7.9 SPORTS FLOORS

### FLOORCOAT PRIMER



Unit of measurement	Pieces/Pallet	Consumption	Color/other specifications
10 kg/bucket 5 kg/bucket	36 psc/pallet 36 psc/pallet	0.25-0.35 kg/m <sup>2</sup>	White



#### FLOORCOAT PRIMARY

An acrylic-base resins in water dispersion primer, for the treatment of sports fields.

#### FEATURES

An acrylic-base resins in water dispersion and filler-based of selected granulometry primer, for indoor and outdoor environments. Thanks to its formula, FLOORCOAT PRIMARY product has high resistance to various weather conditions. The product has excellent adhesive qualities in new surfaces and in pre-coated surfaces.

#### AREA OF APPLICATION

FLOORCOAT PRIMARY is used to treat sports floors before painting them with FLOORCOAT FINAL, such as: tennis, basketball, volleyball, handball courts, tartar track in football pitches, etc. It is applied on concrete, asphalt surfaces, etc.

#### MANNER OF APPLICATION

##### 1. Surface preparation:

The surface where FLOORCOAT PRIMARY will be applied should be cleaned beforehand from dirt, petroleum, oils, varnishes, wax residues, and anti-adhesion materials. Cleaning of oils, varnishes, wax or anti-adhesion materials is done mechanically or manually. Following that, the surface is primed using FLOORCOAT PRIMARY product.

##### 2. Product preparation:

FLOORCOAT PRIMARY can be diluted with 10% - 15% water and is stirred through a mixer which is suitable for homogenization. Then, the product is applied using a brush, roller or spray. The application of the product FLOORCOAT FINAL made 12 - 24 hours after the application of the primer's layer.

#### TECHNICAL DATA

Chemical base	Acrylic dispersion
Specific weight of mixture	1,10±0,05 Kg/lit
Application temperature	From +10°C to +35°C
Recoat time	12 - 24 Hours
Trafficable	About 24 hours according to the temperature and moisture

#### PACKAGING

In buckets of 5kg and 15kg.

#### CONSUMPTION

Smooth surface: 250 - 300 gr/m<sup>2</sup> / layer

#### SHELF-LIFE STORAGE

It is stored in a well-closed packaging, in dry, shady and low-moisture environments, for at least 12 months after manufacture date.





## Developing Ecological Technology

## **08. PAINTS AND VARNISH**

## 8.1 EPOXY PAINTS

### EPO PAINT



Unit of measurement	Pieces/Pallet	Consumption	Color/other specifications
1 kg/A&B 5 kg/A&B	12 pcs/box 45 bucket/pallet	0.2-0.3 kg/m <sup>2</sup>	White



#### EPO PAINT

Bi-component, epoxy-based product.

#### DESCRIPTION

Epo Paint is a bi-component, epoxy-based product, free of solvents, thus offering excellent strength and resistance to consumption.

This product is resistant to acids, bases, petroleum products, solvents, water, sea water, etc. The product is comfort parameters required by the standard EN 1504-2.

#### AREA OF APPLCIATION

Epo Paint is used as a protective and decorative coating on cement-based surfaces, such as: concrete, plaster, etc. The product is suitable for application in industrial areas, laboratories, canned food factories, wine factories, gas stations, etc. This product is particularly suitable for application in swimming pools.

#### MANNER OF APPLICATION

##### 1. Surface

The surface where the product will be applied should be:

- Dry and stable.
- Without the presence of materials that prevent adhesion, such as dust, oil, etc .
- Protect it from moisture with negative pressure.

##### 2. Priming

Cement- based surfaces should be treated with primer EPOXY PRIMER W 4000 or with EPO PAINT diluted to 20% water.

##### 3. Mixing

Components A (resin) and B (hardener) are packed in two separate packages in s predetermined weight ratio. The entire amount of component B is added to component A. The stirring of the two components should continue for about 5 minutes, using a low-speed mixer, with about 300 rpm.

##### 4. Application - Consumption

PAINT EPO must be applied within 24 hours after applying the primer and after the primer has dried. EPO PAINT used as it is or diluted up to 5% of weight with water. It is applied with a roller, brush or spraying

in 2 layers. The second layer is applied after the first layer is dried, but within 24 hours.

#### CONSUMPTION

400-600 g/m<sup>2</sup>.

#### PACKAGING

Epo Paint is packaged in 1 kg and 5 kg packaging

#### SHELF-LIFE - STORAGE

12 months after production date, if the product is stored in original and unopened packaging and protected from direct exposure to sun and frost.

#### TECHNICAL DATA

Basis	2 component epoxy resin
Viscosity	5.000 ± 500 mPa.s at +23°C
Density	1,35 kg/lit
Mixing ratio (A:B)	1:3 by weight
Working time	approximately 60 min at +20°C
Maximal temperature for hardening	+8°C
Trafficable	After 24 h at +23°C
Following layer	After 24 h at +23°C
Final solidification	after 7 days at +23°C
Resistance to consumption	< 3000 mg (EN ISO 5470-1)
Adhesive strength	≥ 2.5 N/mm <sup>2</sup>

### EPOPAINT SL 40



Unit of measurement	Pieces/Pallet	Consumption	Color/other specifications
5 kg/A&B	45 bucket/pallet	0.2-0.3 kg/m <sup>2</sup>	White



#### EPOPAINT SL 40

Epoxy paint with color and high resistance, free of solvents.

#### FEATURES

Epoxy paint with color and high resistance, free of solvents, particularly resistant to friction, strong acids and alkalis, solvents, petroleum byproducts, sea or chlorinated water as well as extreme weather conditions. The surface that is created is distinguished for its high hardness, is not absorbent, does not allow the development of bacteria and is specific even for areas that require strict hygiene. It resists temperatures from - 30°C to + 100°C and to + 60°C in dry cargo.

#### AREA OF USE

EPOPAINT SL 40 is used as a coating layer on the floor with high requirements in mechanical and chemical resistances. It is applied in cement-base substrates, such as: the leveling mortar of floors, concrete and amianto cement. It effectively protects and decorates cement- based industrial floors in hospitals, wineries, dairy industry, dairies, kitchens, laboratories, slaughterhouses, car washes, garages and machine shops, petrol stations, pools and fountains. Surfaces where EPOPAINT SL 40 product is applied may be in direct contact with foods. It is applied to metal and wood surfaces after primed with EPOMETAL W – 5300, such as floors made from sheet steel, MDF, or chipboard. Its powdering with the quartz sand QUARTZ of 0-0.3 mm granulometry, creates anti-slip surfaces.

#### APPLICATION MANNER

##### 1. Prepare the surface:

Good preparation of the substrate is of great importance for the final result. For cement surfaces, the category of concrete should be at least C20 / 25. Content of cement in floor leveling mortar should be 350 kg/m<sup>3</sup>, humidity should not exceed 4% and at least 28 days must have passed after their construction. Substrates that are not porous should be prepared by rubbing, milling or throwing sand, in order for them to become porous and for the EPOPAINT SL 40 to penetrate, thus

ensuring a full absorption of the epoxy coating. The surface of application should be clean, completely dry, and free of damaged materials, dust and grease. In cases of irregularities (holes, cracks), stucco them with the same material mixed with quartz sand Quartz of 0 - 0,3 mm granulometry, in ratio 1:1,5 up to 1:2. Metallic surface: surface should be clean, completely dry, and free of rust and any other type of corrosion. If so, prime the surface with EPOMETAL W - 5300 and after it gets dried, apply EPOPAINT SL – 40.



## 8.2 SPORTS FLOORS

### FLOORCOAT PAINT



Unit of measurement	Pieces/Pallet	Consumption	Color/other specifications
5 kg/bucket 10 kg/bucket	36 pcs/pallet 36 pcs/pallet	0.2-0.3 kg/m <sup>2</sup>	White



#### FLOORCOAT PAINT

An acrylic-base resins in water dispersion paint, for marking indoor and outdoor sports fields.

#### FEATURES

An acrylic-base resins in water dispersion and filler-based of selected granulometry paint, for indoor and outdoor environments. Thanks to the formula of FLOORCOAT FINAL product, it has good coverage and longevity. The product has high resistance towards various weather conditions and towards abrasion. The product has excellent adhesive qualities in new surfaces and in pre-coated surfaces.

#### AREA OF APPLICATION

FLOORCOAT PAINT is used to coat sports floors, such as: tennis, basketball, volleyball, handball courts, tartar track in football pitches, etc.

#### MANNER OF APPLICATION

##### 1. Surface preparation:

FLOORCOAT PAINT is applied on the dried surface where FLOORCOAT FINAL was applied beforehand, which serves for field's markings.

##### 2. Product preparation:

FLOORCOAT PAINT can be diluted with 10% - 15% water and is stirred through a mixer which is suitable for homogenization. Then, the product is applied using a brush, roller or spray. The application of the product is made in two layers. The second layer is applied 12 - 24 hours after the application of first layer.

#### TECHNICAL FEATURES

Chemical base	Acrylic dispersion
Specific weight of mixture	1,50±0,05 kg/l <sup>t</sup>
Application temperature	From +10°C to +35°C
Recoat time	12-24 hours
Trafficable	About 24 hours according to the temperature

#### PACKAGING

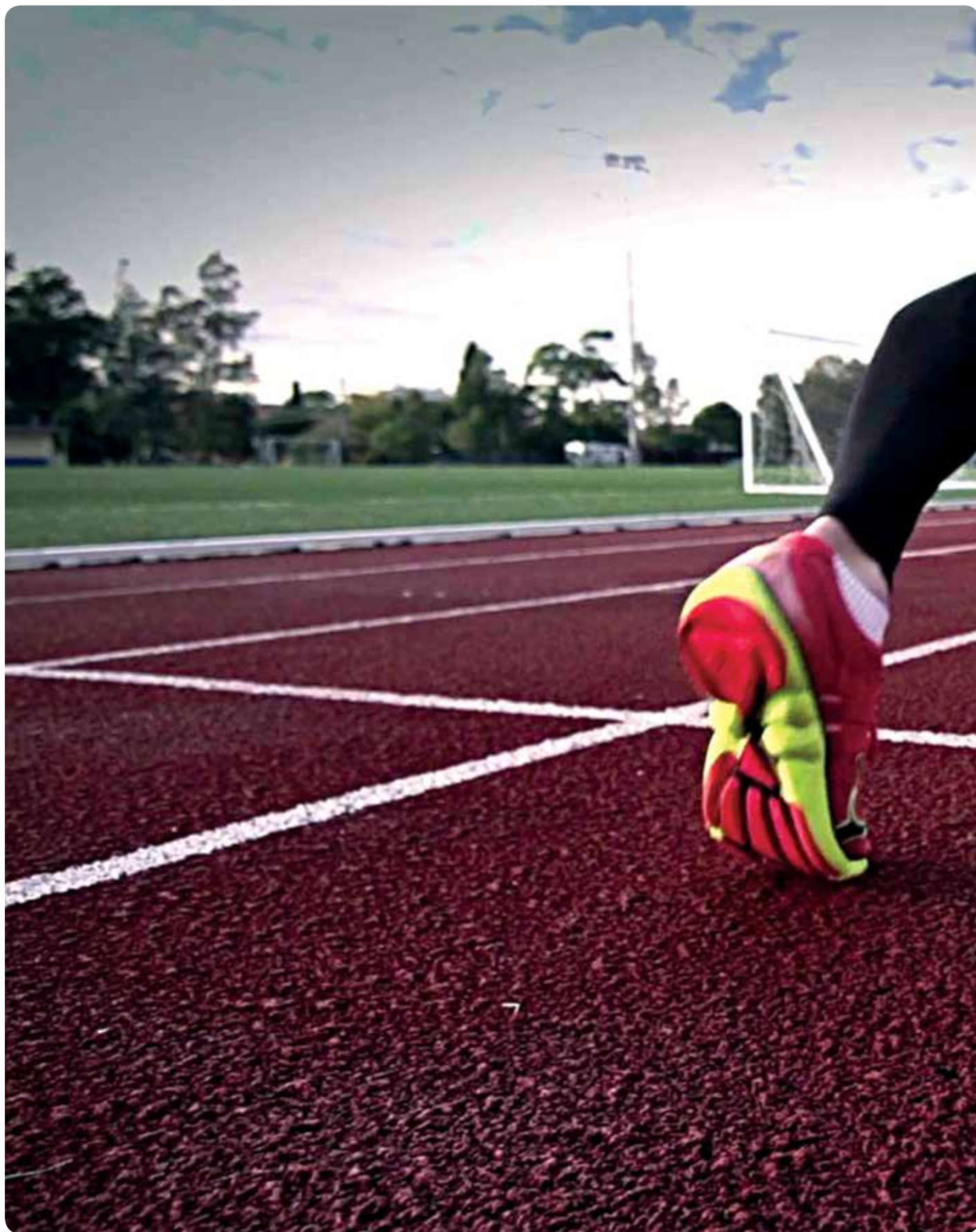
In buckets of 5 kg and 10 kg.

#### CONSUMPTION

Smooth surface: 250 - 300 gr/m<sup>2</sup> / layer

#### SHELF-LIFE STORAGE

It is stored in a well-closed packaging, in dry, shady and low-moisture environments, for at least 12 months after manufacture date.



## 8.3 VARNISH FOR PARQUET

### PARQUET VARNISH



Unit of measurement	Pieces/Pallet	Consumption
1 kg/bucket 5 kg/bucket	12 pcs/box 36 pcs/pallet	250 g/m <sup>2</sup>



#### PARQUET VARNISH

Mono-component, polyurethane-based varnish, with high resistance to consumption, for high-traffic floors.

#### FEATURES

Polyurethane-based varnish, for indoor and outdoor wood surfaces. Easily coated; manifests good elasticity and is excellently laid. It is particularly resistant to humidity and snow, while the UV filters it contains protect the wood from ultraviolet sun rays. Highlights and protects the natural beauty of all types of wood, accentuating their texture.

#### METHOD OF APPLICATION

##### 1. Preparation of the surface

The right preparation ensures better results in new woods and old woods as well. A necessary condition is that the humidity of wood and atmosphere should be as low as possible. Before the application of PARQUET VARNISH, the surface must be rubbed with suitable sandpaper and it must be free of dust; if there is any resin, it must be removed. To preserve the natural wood color, 1 translucent, maintenance, coating layer is sufficient. To change the wood color, apply 1 translucent, maintenance layer and then 2-3 colored layers. At the final stage, coat 1-2 layers with PARQUET VARNISH. If we are dealing with simple maintenance, a light rubbing with sandpaper and the removal of dust would be sufficient. In cases when old varnishes are in bad condition, they should be removed completely with a thick sandpaper. After having done that, follow the same procedure.

##### 2. Application

PARQUET VARNISH is diluted up to 5% with white spirit. It is applied with brush, roller or pistol in 1-2 layers, depending on the application.

#### CLEANING

Clean the tools with white spirit

#### CONSUMPTION

1 lt/10-12 m<sup>2</sup> / layer, well prepared surfaces.

#### PACKAGING

Carton boxes: 12 pieces of 1 kg

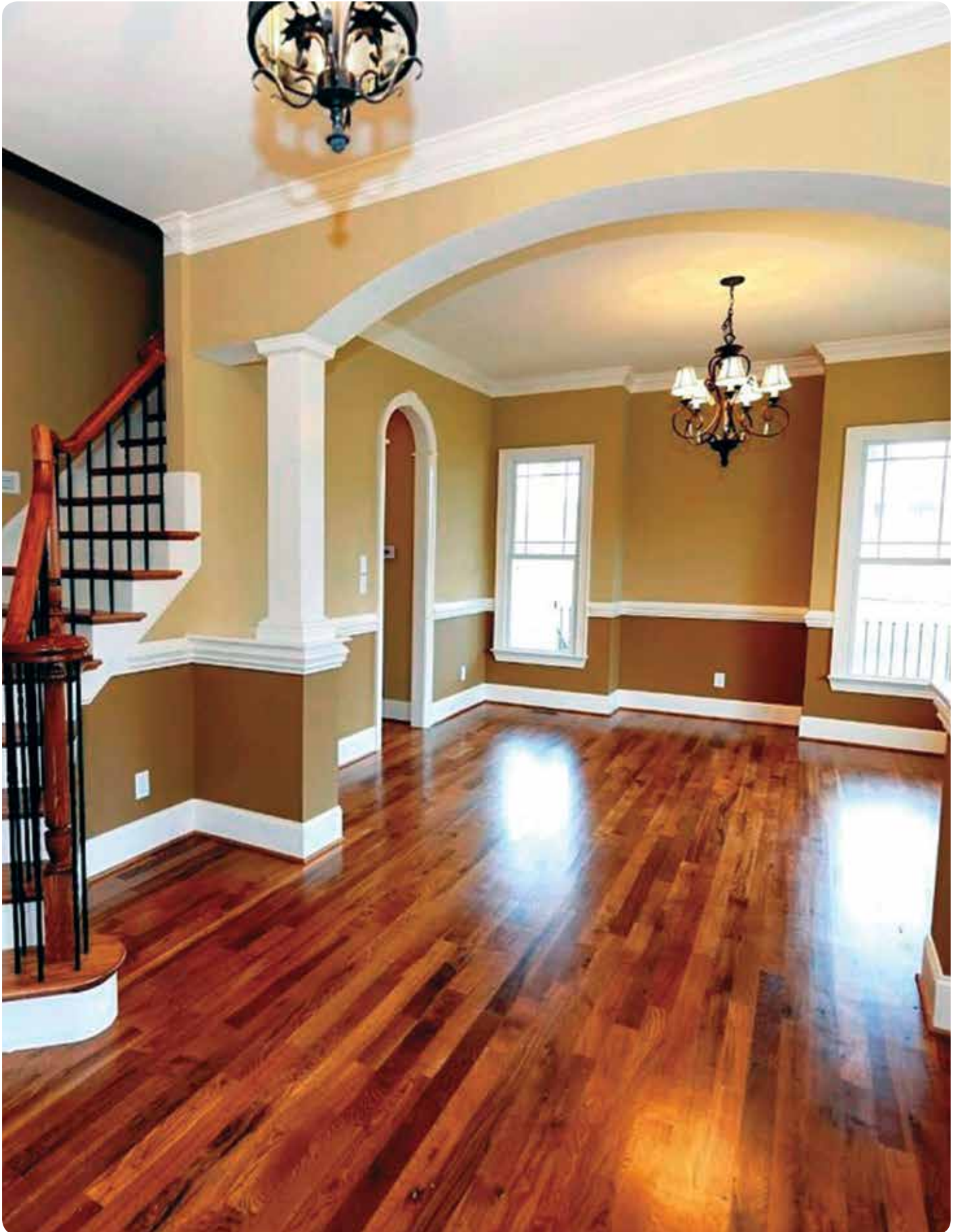
Pallets: 36 pieces of 5 kg

#### SHELF-LIFE-STORAGE

It is stored in shady and dry environments, away from any heat source, for at least 24 months after manufacture date.

#### TECHNICAL DATA

Color-Form	Transparent – Liquid varnish
Gloss	Satine, gloss
Drying time	3 - 5 hours (to touch) depending on weather conditions
Re-coat	After 8-10 hours depending on weather conditions
Application temperature	From +5°C to +35°C Satine, gloss
Specific weight	0,90 ± 0,05 Kg/lt
Re-coat	After 8-10 hours depending on weather conditions
Application temperature	From +5°C to +35°C 2 N/mm <sup>2</sup> according to DIN 53504
Specific weight	0,90 ± 0,05 Kg/lt



## 8.3 VARNISH FOR PARQUET

### PARQUET VARNISH ULTRA



Unit of measurement	Pieces/Pallet	Consumption
Component A 1 kg Component B 4 kg	12 pcs/box 36 pcs/pallet	250 g/m <sup>2</sup>



#### PARQUET VARNISH ULTRA

Two component, polyurethane-based varnish, with high resistance to consumption, for high-traffic floors.

#### FEATURES

Polyurethane-based varnish, for indoor and outdoor wood surfaces. Easily coated; manifests good elasticity and is laid in an excellent manner. It is particularly resistant to humidity and snow, while the UV filters it contains protect the wood from ultraviolet sun rays. Highlights and protects the natural beauty of all types of wood, accentuating their texture.

#### METHOD OF APPLICATION

##### 1. Preparation of the surface

The right preparation ensures better results in new woods and old woods as well. A necessary condition is that the humidity of wood and atmosphere should be as low as possible. Before the application of PARQUET VARNISH ULTRA, the surface must be rubbed with suitable sandpaper and it must be free of dust; if there is any resin, it must be removed. To preserve the natural wood color, 1 translucent, maintenance, coating layer is sufficient. To change the wood color, apply 1 translucent, maintenance layer and then 2-3 layers of color. At the final stage, coat 1-2 layers with PARQUET VARNISH ULTRA. If we are dealing with simple maintenance, a slight rubbing with sandpaper and the removal of dust is sufficient. In cases when old varnishes are in bad condition, they should be removed completely with a thick sandpaper. Having done that, follow the same procedure.

##### 2. Application

PARQUET VARNISH ULTRA, after mixing component A and B, is diluted up to 5% with white spirit. It is applied with brush, roller or pistol in 1-2 layers, depending on the application.

#### CLEANING

Clean the tools with white spirit

#### CONSUMPTION

1 lt/10-12 m<sup>2</sup> / layer, in well prepared surfaces.

#### PACKAGING

Component A 12 pieces/ box: 1 Kg

Component B 36 pieces/ pallet 4 kg

#### SHELF-LIFE-STORAGE

It is stored in shady and dry environments, away from any heat source, for at least 24 months after manufacture date.

#### TECHNICAL DATA

Color - Form	Transparent – Liquid varnish
Gloss	Satine, gloss
Drying time	3-5 hours (to touch) depending on weather conditions
Re-coat	After 8-10 hours depending on weather conditions
Application temperature	From +5°C to +35°C
Specific weight	0,90 ± 0,05 kg/lt



## 8.3 VARNISH FOR PARQUET

### PARQUET AQUA LINE



Unit of measurement	Pieces/Pallet	Consumption
Component A 1 kg Component B 4 kg	12 pcs/box 36 pcs/pallet	250 g/m <sup>2</sup>



#### PARQUET AQUA LINE

Two component, polyurethane-based varnish, with high resistance to consumption, for extremely high-traffic floors.

#### FEATURES

Polyurethane-based varnish, for indoor and outdoor wood surfaces. Easily applied; manifests good elasticity and is laid in an excellent manner. It is particularly resistant to humidity and snow, while the UV filters it contains protect the wood from ultraviolet sun rays. Highlights and protects the natural beauty of all types of wood, accentuating their texture.

#### METHOD OF APPLICATION

##### 1. Preparation of the surface

The right preparation ensures better results in new woods and old woods as well. A necessary condition is that the humidity of wood and atmosphere should be as low as possible. Before the application of PARQUET AQUA LINE, the surfaces must be rubbed with suitable sandpaper and they must be free of dust; if there is any resin, it must be removed. To preserve the natural wood color, 1 translucent, maintenance, coating layer is sufficient. To change the wood color, apply 1 translucent, maintenance layer and then 2-3 coloring layers. At the final stage, coat 1-2 layers with PARQUET AQUA LINE. If we are dealing with simple maintenance, a slight rubbing with sandpaper and the removal of dust is sufficient. In cases when old varnishes are in bad condition, they should be completely removed with a thick sandpaper. Having done that, follow the same procedure.

##### 2. Application

PARQUET AQUA LINE, after mixing component A and B, is diluted up to 5% with white spirit. It is applied with brush, roller or pistol in 1-2 layers, depending on the application.

#### CLEANING

Clean the tools with white spirit

#### CONSUMPTION

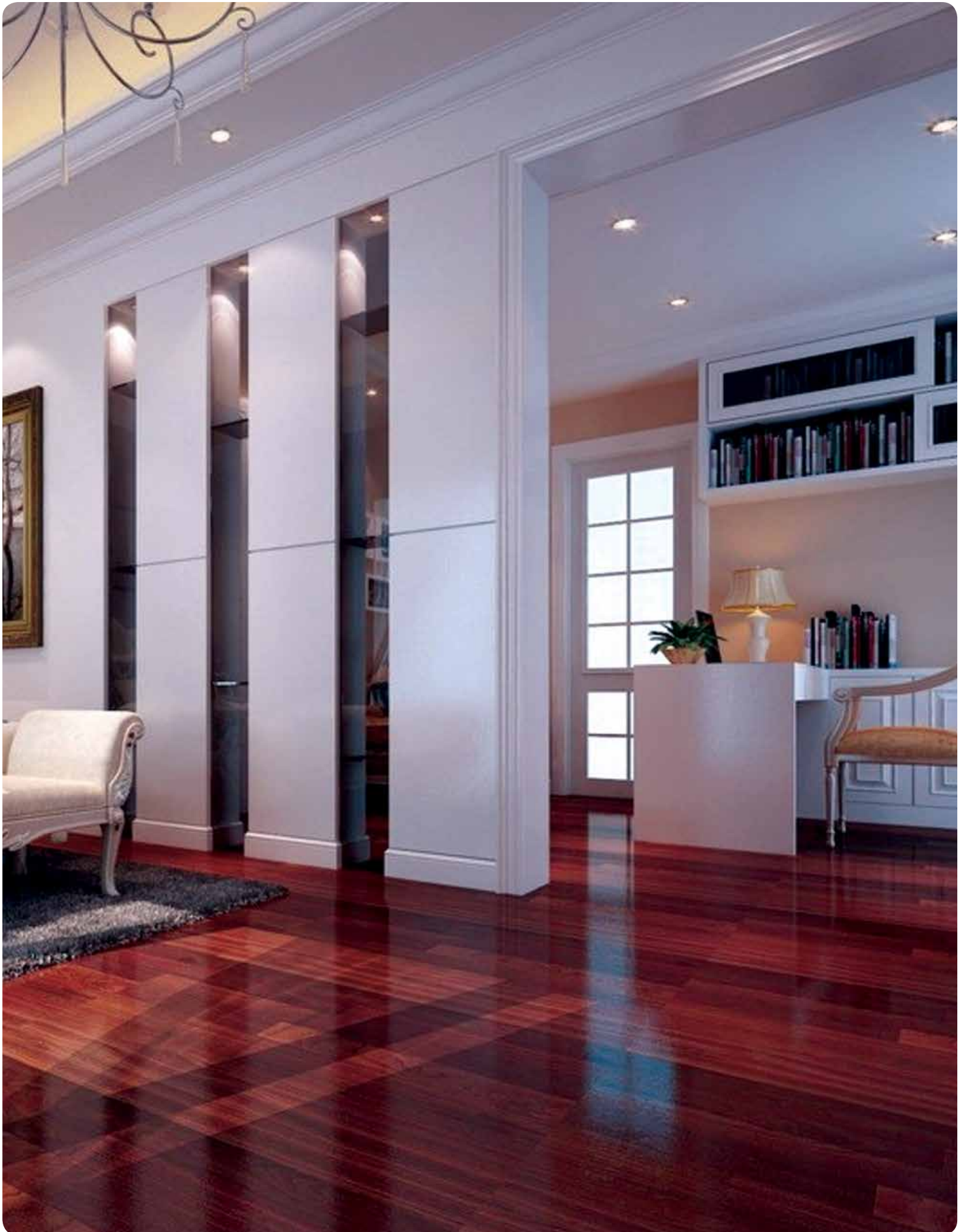
1 lt/10-12 m<sup>2</sup> / layer, in well prepared surfaces.

#### SHELF-LIFE-STORAGE

It is stored in shady and dry environments, away from any heat source, for at least 24 months after manufacture date.

#### TECHNICAL DATA

Color - Form	Transparent – Liquid varnish
Gloss	Satine, gloss
Drying time	3-5 hours (to touch) depending on weather conditions
Re-coat	After 8-10 hours depending on weather conditions
Application temperature	From +5°C to +35°C
Specific weight	0,90 ± 0,05 kg/lt



## 8.4 WATERPROOF VARNISH FOR FACADES AND FINISHED FLOORS

### EPOXY VARNISH W 4500



Unit of measurement	Pieces/Pallet	Consumption	Color/other specifications
1 kg/A&B 4 kg/A&B	12 pcs/box 36 pcs/pallet	0.2-0.5 kg/m <sup>2</sup>	Transparent



#### EPOXY VARNISH W 4500

Two component, water-based, epoxy varnish.

#### DESCRIPTION

EPOXY VARNISH is a bi-component, water-based, epoxy product. The product offers high physical and mechanical resistance, such as: resistance to corrosion, resistance to water, acids, alkalis, petroleum products etc..

#### AREA OF APPLICATION

EPOXY VARNISH W 4500 is used as a varnish, to give gloss and resistance towards water, acids alkali, etc, to surfaces where it is applied

#### INSTRUCTIONS FOR USE

The surface must be:

- Stable.
- Free of the presence of materials that prevent bonding, such as: dust, loose particles, fats, etc.
- Protected from negative moisture pressures.

It should be prepared according to the nature of the surface. The surface should be cleaned well with a vacuum cleaner.

#### APPLICATION PROCEDURE

Component A (resin) and component B (solidifier) are supplied in two separate buckets in a predetermined proportion to weight ratio. The whole quantity of component B should be added to component A. the stirring of the two components should be made for about 5 minutes, by using a low- speed agitator (300 rotations/ min). It is important to stir well in the edges and bottom of the bucket so as to achieve a thorough mixture and a uniform distribution of the solidifier. EPOXY VARNISH W 4500 is applied as it is, or diluted in wit 10% water. The product can be applied with brush or roller.

#### CONSUMPTION

300 gr/m<sup>2</sup> for layer.

#### PACKAGING

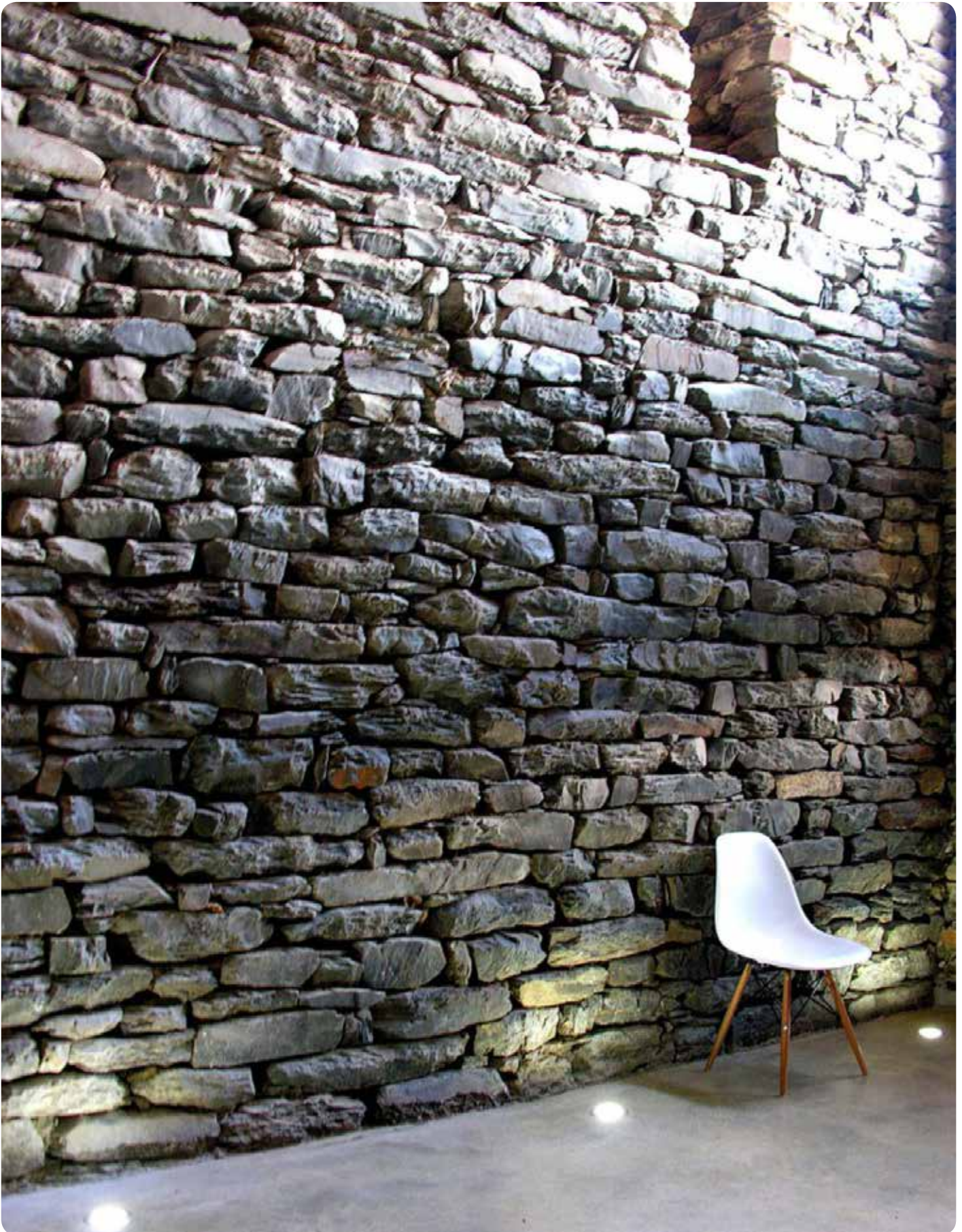
It is supplied in metal boxes, A + B 4 Kg.

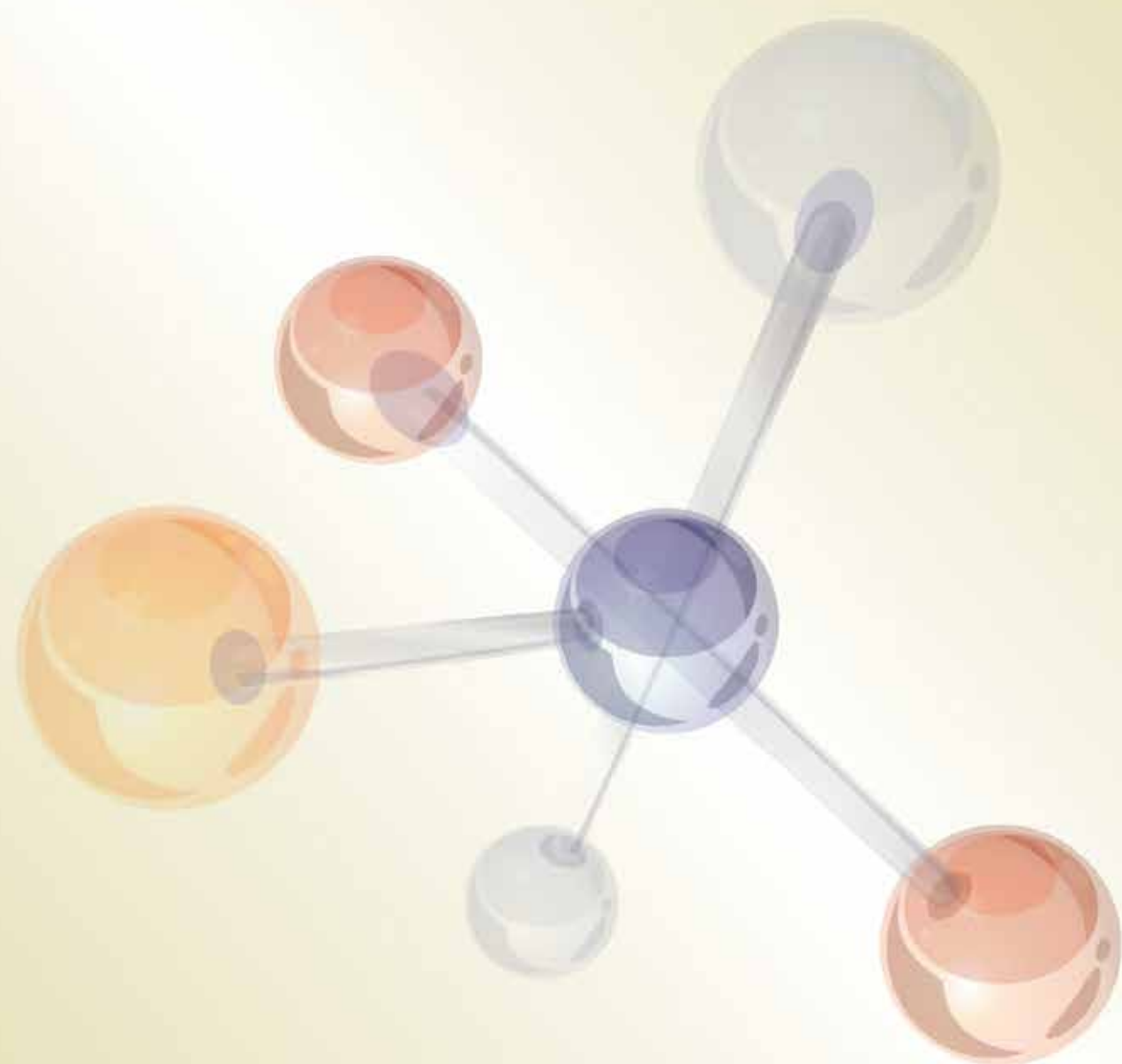
#### SHELF-LIFE STORAGE

24 months if stored in original and unopened packaging, in dried places and at temperatures between 5°C and 25°C.

#### TECHNICAL DATA

Base	bi-component, epoxy resin
Color	Transparent
Viscosity (A)	100 mPa.s in +23°C
Viscosity (B)	2.000 mPa.s at +23°C
Viscosity (A+B)	600 mPa.s at +23°C
Density (A)	1,02 Kg/lit
Density (B)	1,13 Kg/lit
Density (A+B)	1,04 Kg/lit
Mixing ratio (A:B)	1:3 in weight
Pot-life	approximately 60 min at +20°C
Minimum curing time	+8°C
Trafficable	after 18 h at +23°C
Final Resistance	after 7 days at +23°C
Adhesive Strength	> 4 N/mm <sup>2</sup>





## 09. ADDITIVES

## 9.1 ADDITIVE FOR TILES ADHESIVES

FLEXIT



Unit of measurement	Pieces/Pallet	Consumption	Color/other specifications
1kg/plastic can	12 psc/box	1-3 kg/25 kg product	White
5 kg/plastic can	4 psc/box	--	--
10 kg/plastic can	60 psc/pallet	--	--



### FLEXIT

It is product with elastomeric contents which is used as an additive in adhesives and cement-based mortars, as well as to the mono-component sealant giving them the following properties:

- High flexibility
- impermeability to water
- Improved adhesive quality

### AREA OF APPLICATION

Flexit is used as elasticizer in the following cases:

- In mono-component sealants that are applicable with a brush, such as (MONOFLEX), in cases when there are cracks or crevices in the surface where it will be applied.
- The tile adhesive (DW), for the laying of tiles on the surface which are characterized by cracks, crevices and in those cases when they are exposed to vibrations and contraction - expansion.
- Suitable to adhere tiles and polystyrene panels on metal, wood and substrates with high deformability.
- Also, FLEXIT is recommended to be used as elasticizer in all cement-based products.

### TECHNICAL FEATURES

Type	Acrylic polymer in water dispersion
Color	White
Viscosity	500±20mPa.s23°C
Density	1,03 kg/lit

### METHOD OF USE AND CONSUMPTION

#### Surface preparation

The surfaces where the adhesive will be applied must be clean, free of oils or powders, and it is recommended for them to be as flat as possible. In cases when they are not flat, they can be leveled but always avoiding accumulation of water.

### APPLICATION DIRECTIONS CONSUMPTION

#### Preparation of substrate

The substrate must be clean, free of grease, oil, dust and as flat as possible. It should also be dampened but without water accumulation.

- Elastification of cementitious brushable sealing slurries

-Full elastification of Monoflex

The content of 1 bag (25 kg) Monoflex is gradually added into 10 kg of



FLEXIT, under continuous stirring. A small quantity of water may also be needed.

-For partial elastification of Monoflex

The content of 1 bag (25 kg) Monoflex is gradually added into 5 kg of FLEXITplus a quantity of water (approx. 3-4 kg), under continuous stirring.

#### •Elastification of tile adhesives

-Full elastification

The content of 1 bag (25 kg) of DW is added into 10 kg FLEXIT (plus a quantity of water if needed) under continuous stirring, until a uniform mixture is formed.

-For partial elastification

The content of 1 bag (25 kg) of DW is added into 5 kg FLEXIT plus a quantity of water (approx. 3-4 kg), under continuous stirring, until a uniform mixture is formed. Porous surfaces like aerated concrete, gypsum boards, chip boards etc. should be primed with FLEXIT diluted with water 1:2 (FLEXIT/WATER). The time of hardening of mortar with FLEXIT can be doubled compared with the same mortar without elastifying agent. In exceptional cases (non-absorbent substrates without contact with air) the hardening may be delayed up to 3 days.

### SHELF-LIFE STORAGE

18 months after date of production, if stored in original packaging, unopened, at temperatures between +5°C and +35°C. It should be protected from direct exposure to sun and frost.



### DW 17



Unit of measurement	Pieces/Pallet	Consumption	Color/other specifications
1kg/plastic can	12 psc/box	1-3 kg/25 kg product	Yellow
5 kg/plastic can	4 psc/box	--	--
10 kg/plastic can	60 psc/pallet	--	--



#### DW 17

Additive for adhesives of DW line and tile stuccos (fugacolor, megafuga).

#### DESCRIPTION

DW17 is an acrylic-based mixture which significantly improves properties of tile adhesives and stuccos.

- Significantly increases the adhesive ability to the support.
- Increases strength in flexion and compression.
- Significantly improves flexibility.
- Significantly increases resistance to abrasion and friction.
- Gives the product impermeability to water.
- Improves chemical resistance to atmospheric agents.

#### AREA OF APPLICATION

DW 17 is used as a reinforcing additive for tiles' adhesives and stuccos, in cases where high impermeability to water is required and in cases where an increase of mechanical strength and resistance to chemical agents is required. It is recommended to mix the tile joints fillers FUGACOLOR, NANOCOLOR and MEGAFUGA with DW 17, in cases when we want to apply them on walls or floors that are exposed to atmospheric corrosive agents, humidity, high temperature, mold etc. In such cases, DW 17 ensures the product high resistance consistency over time.

#### TECHNICAL DATA

Color	White
Density	0.99-1,01 kg/lit
Solids	20%

#### METHOD OF PREPARATION AND CONSUMPTION

DW 17 is diluted in the water with which will be mixed the adhesive or tiles' stucco. Mixing is done at ratios 1: 1 or 1: 2 in volume.

#### SHELF-LIFE STORAGE

18 months after date of production, if stored in original packaging, unopened, at temperatures between +5°C and +35°C. It should be protected from direct exposure to sun and frost.



## 9.3 REINFORCEMENT ADDITIVE FOR FINISHES AND MORTARS

### LATEX



Unit of measurement	Pieces/Pallet	Consumption	Color/other specifications
1kg/plastic can	12 psc/box	1-3 kg/25 kg product	White
5 kg/plastic can	4 psc/box	--	--
10 kg/plastic can	60 psc/pallet	--	--



#### LATEX

Is an additive for the improvement cement- based mortars.

#### DESCRIPTION

Latex is a synthetic polymer, to improve the cement-based mortar and concrete layers

#### LATEX APPLICATION

- As a bonding layer between old and new concrete or mortar.
- For the improvement of mortar or lime and cement-based refinishes
- Increases the adhesiveness of mortar and water impermeability.
- Used for waterproof cement-based mortars providing resistance to hydrostatic pressure.
- Used to improve the resistance of mortars in foundations.
- Improves considerably the adhesion capacity of refinishes.
- Protects concrete surfaces from dehydration.
- Latex increases significantly adhesiveness, mechanical resistance, elasticity and impermeability from water in cement-based construction products.

#### PREPARATION OF THE SURFACE

The supports on which the product will be applied must be free from all dust, grease, oils, residues of Finos, paints etc.

#### APPLICATION

Latex is mixed with water and the mixing ratio depends on the characteristics we want to give to mortars and tile adhesives.

Latex mixing ratio of water should not be lower than 1: 5. If this report will be smaller, there will not be any improvement and reinforcement in the properties of cement-based mortars and adhesives. For the prepa-

ration of concrete and traditional mortar, initially pour Latex and then cement and sand, in order to avoid the formation of granules. Its use increases considerably the product's workability and its drying time. All cement-based mortars that are mixed with Latex are characterized by good adhesiveness and higher elasticity compared to other mortars that are not mixed with Latex.

#### TECHNICAL DATA

Color	White
Density	0.99-1,01 kg/lit
Solids	30%



## 9.4 ADDITIVE FOR DUST REMOVAL

### BETOPLAST PLUS



Unit of measurement	Pieces/Pallet	Consumption	Color/other specifications
1 kg/plastic can	12 pcs/box	300-500 gr/100kg Cement	Brown
5 kg/plastic can	4 pcs/box	--	--
10 kg/plastic can	60 pcs/pallet	--	--
1000 KG/IBC	IBC	--	--



#### BETOPLAST PLUS

Plasticizer, Type A - additive for waterproofing in concrete preparation. BETOPLAST PLUS is a liquid additive that acts as a plasticizer and waterproofing agent in concrete, thus offering the following advantages:

- Significantly increases water impermeability in positive and negative pressure or capillary absorption.
- Improves workability without the need to increase the amount of water.
- Eliminates the air within the concrete mass.
- Does not contain chlorides and other irritating agents.
- It is compatible with all types of Portland cement.

#### AREA OF APPLICATION

BETOPLAST PLUS is a necessary additive for the preparation of concretes with high resistance to compression, for concretes exposed to atmospheric agents, as well as for concrete that will immerse into water.

#### INSTRUCTIONS FOR USE

##### BETOPLAST PLUS can be added:

- In the mixer water during the preparation of concrete.
- In pre- prepared concrete before use. In this case, concrete mixer must mix the concrete for 3-5 minutes in addition, in order to achieve a uniform distribution in the concrete mixture.

#### DOSAGE

0.2 - 0.5 kg per 100 kg cement.

#### TECHNICAL DATA

Color	Dark brown
Density	1,08 - 1,14 kg/lit
pH	8,00 ± 2,00
Maximum content of chlorides	Does not contain clorures
Maximum alkali content	≤ 4,0% by weight

#### PACKAGING

BETOPLAST PLUS is packed in plastic cans containers of 1 kg, 5 kg and 10 kg.

#### SHELF-LIFE - STORAGE

18 months after production date, if the product is stored in original and unopened packaging, at temperatures between +5°C and +35°C and protected from direct exposure to sun and frost.



## BETOPLAST



Unit of measurement	Pieces/Pallet	Consumption	Color/other specifications
1 kg/plastic can	12 pcs/box	300-500 gr/100kg Cement	Brown
5 kg/plastic can	4 pcs/box	--	--
10 kg/plastic can	60 pcs/pallet	--	--
1000 KG/IBC	IBC	--	--



### BETOPLAST

Plasticizer, Type A - additive for waterproofing in concrete preparation. BETOPLAST is a liquid additive that acts as a plasticizer and waterproofing agent in concrete and, thus offering the following advantages:

- Significantly increases water impermeability in positive and negative pressure or capillary absorption.
- Improves workability without the need to increase the amount of water.
- Eliminates the air within the concrete mass.
- Does not contain chlorides and other irritating agents.
- It is compatible with all types of Portland cement.

### AREA OF APPLICATION

BETOPLAST is a necessary additive for the preparation of concretes with high resistance to compression, for concretes exposed to atmospheric agents, as well as for concrete that will immerse into the water.

### INSTRUCTIONS FOR USE

#### BETOPLAST can be added:

- In the mixer water during the preparation of concrete.
- In pre- prepared concrete before use. In this case, concrete mixer must mix the concrete for 3-5 minutes in addition, in order to achieve a uniform distribution across the concrete mass.

### DOSAGE

0.3 - 0.9 kg per 100 kg cement

### TECHNICAL DATA

Color	Dark brown
Density	1,08 - 1,14 kg/lit
pH	8,00 ± 2,00
Maximum content of chlorides	Does not have any
Maximum alkali content	≤ 4,0% by weight

### PACKAGING

BETOPLAST is packed in plastic cans containers of 1 kg, 5 kg and 10 kg.

### SHELF-LIFE - STORAGE

18 months after production date, if the product is stored in original and unopened packaging, at temperatures between +5°C and +35°C and protected from direct exposure to sun and frost.



## 9.5 CONCRETE ADDITIVES

### BETO-AIR



Njësia matëse	Copë/paletë	Konsumi	Ngjyra/specifikime të tjera
1 kg/bidon	10 cp/kuti	1-3 kg/25 kg produkt	E Bardhë
5 kg/bidon	4 cp/kuti	--	--
10 kg/bidon	60 cp/paletë	--	--



#### DESCRIPTION

BETOAIR is a liquid admixture with foaming action for entraining high volumes of air in cementations mixtures, especially recommended for producing easily pump able light-weight mortars and concretes.

#### FIELD OF APPLICATION

Because of its foaming action and its ability to form evenly spaced micro-bubbles of air in the cement matrix, BETOAIR produces light-weight, easily pump able mortars and concretes with high stability and cohesion. The reduced density of the cement matrix caused by the presence of air bubbles formed by BETOAIR prevents light-weight aggregates from floating to the surface.

BETOAIR is especially recommended for:

- Preparing mortars and concretes with natural and artificial light-weight aggregates (pumice, expansive clay, polystyrene) with high insulating capacity;
- Preparing high stability super-plastic mortars and concretes with a low modulus of elasticity and tensile strength for filling ground cuts after laying pipes;
- To make cellular concrete using special pumps to generate the right amount of flow of foam.

#### TECHNICAL CHARACTERISTICS

BETOAIR is a water solution of special organic polymers with strong foaming action developed by DAST for producing light-weight concretes and mortars with high stability and easy pump ability. BETOAIR is especially effective for producing aerated mortars and concretes for filling ground cuts after laying pipes.

Concretes made with BETOAIR:

- fill in cuts perfectly and also provide a perfect seal for pipe joins. The excellent results obtained in filling cuts with foamed concretes and mortars admixed with BETOAIR prevent the bleeding of water that usually occurs when loose earth or conventional concrete is used for fill;
- prevent the fill material from settling under the load of traffic passing over it. Foamed concretes and mortars produced with BETOAIR admixture adhere perfectly to the wall of the cut and are as solid as the sur-

rounding ground. Using BETOAIR prevents the settling that occurs when cuts are filled with gravel or conventional cementations mixtures, along with the resulting cracks in the bituminous road surface;

- can be easily removed during maintenance or substitution of pipes and cables. Because foamed concretes made with BETOAIR have only moderate resistance to tensile and shearing stress, the hardened material can be easily removed. Whether used for preparing insulating mortars or foamed concretes the foaming action of BETOAIR can be reduced by adjusting the amount used (1 to 2 liters per 100 Kg of cement). The collateral retardant effect of BETOAIR increases with the amount used. However, using more than 1.2 l/m<sup>3</sup> of mix is not recommended, as this would excessively retard setting time.

#### TECHNICAL DATA PRODUCT IDENTITY

Consistency	Liquid
Color	Brown
Specific weight (g/cm <sup>3</sup> ):	1.10 ± 0.02
Dry solids content (%):	14
Principal action:	Foaming agent
Collateral action:	Retards early hydration when used in high doses
Chlorides:	No

#### CONSUMPTION

Dosage:

**From 1 to 2 liters for 100 kg of cement.**

#### PACKAGING

BETOAIR is available in 1 kg, 5 kg and 10 kg canister, and in 1000 kg tanks.

#### STORAGE

Store BETOAIR for 18 months in closed containers, protect from frost and exposure to direct sunlight weight.



## 9.5 CONCRETE ADDITIVES

### BETO-ACC



Unit of measurement	Pieces/Pallet	Consumption	Color/other specifications
1 kg/plastic can	12 pcs/box	1-2 kg/100kg Cement	Transparent
5 kg/plastic can	4 pcs/box	--	--
10 kg/plastic can	60 pcs/pallet	--	--
1000 KG/IBC	IBC	--	--



#### BETO ACC

Accelerator for concrete drying and anti-freezing agent

#### DESCRIPTION

Liquid additive that accelerates drying time and allows strengthening at low temperatures. It does not contain free chlorine or other irritating agents. It does not have any effect to the resistance of concrete, according to standard EN 934-2: T6.

#### Area of application

- Strengthening of concrete at low temperatures.  
- Used in those parts where rapid drying is required (anchorage, repairs etc.).

#### TECHNICAL DATA

Color	Transparent
Density	1,47 - 1,53 kg/lit
pH	6,00 ± 1,00
Maximum chloride content	Does not have any
Maximum alkali content	≤ 1,0% by weight

#### METHOD OF APPLICATION

BETO - ACC is added:

- In the water, during the preparation of concrete.
- In prepared concrete, before it is used. In this case, it is necessary for the mixing to continue for 3-4 minutes in addition, so as to achieve a uniform distribution of BETO- ACC.

#### DOSAGE

1.0 to 2.0 kg per 100 kg cement, depending on the time required.

Data of BETO- ACC for a standard mixing ratio:

1.0 % in ratio to the weight of cement.

#### Drying Time

0%	480 min
1.0%	410 min
1.5%	390 min
2.0%	375 min

#### Reducing drying time

0 min
70 min
90 min
105 min

#### PACKAGING

BETO - ACC is supplied in plastic cans of 1 Kg, 5 Kg and 10 Kg.

#### SHELF-LIFE - STORAGE

18 months after production date, if the product is stored in original and unopened packaging, at temperatures between +5°C and +35°C and protected from direct exposure to sun and frost.

#### NOTE

- Concrete components (aggregates, water, cement) must be at temperatures higher than 0°C.
- Avoid water additions for a better workability and the ratio of water/ cement should be as low as possible.
- The concrete surface must be protected during the drying with plastic sheet or other materials available, to reduce losses of humidity from temperatures.



### BETO-RET



Unit of measurement	Pieces/Pallet	Consumption	Color/other specifications
1 kg/plastic can	12 pcs/box	300-500 gr/100kg Cement	Brown
5 kg/plastic can	4 pcs/box	--	--
10 kg/plastic can	60 pcs/pallet	--	--
1000 KG/IBC	IBC	--	--



#### BETO RET

Retarder of the drying of concrete - Reducer of the amount of water and plasticizer.

#### DESCRIPTION

BETO - RET is a liquid additive that delays the drying of concrete, so extends the time in which the concrete has plasticity. At the same time, it reduces the amount of water needed for workability and by holding stable the amount of water in the mixture, it improves workability.

- In addition to drying time, it provides very good hydration of cement, thus resulting in a significant increase of initial and final resistances of concrete.
- Slows down concrete coagulation and prevents division of aggregates
- Significantly prevents cracks that are caused by contractions of concrete.
- Reduces water absorption in concrete due to the reduction of porosity. BETO - RET is an essential supplement to preparing high quality concrete.
- Improves the flow of concrete and slows drying.
- Facilitates the transportation of ready-made concrete over long distances, especially at high temperatures.
- Strengthening development does not cause delays in the removal of wood forms.
- In accordance with standard ELOT EN 934-2: 2001, Table 10.
- Reduction of the water amount in the mixture for concrete preparation with the determined features achieved by the addition of BETO - RET, allows reduction of cement quantity in the same percentage. By keeping constant the report water / cement, the produced concrete retains the desired quality.

#### DOSAGE

Allowed dosage: 0.3 - 0.5 % in ratio of cement weight.

#### TECHNICAL DATA

Color	Dark brown
Density	1,11-1,17 kg/l
pH	≤ 7,9
Free chlorine content	Does not contain any
Content of bases	≤ 4,5% by weight

#### EFFECTIVITY

For each allowed dosage amount, a deduction of water is reached up to a ratio of 5-18%. Respectively, an increase happens in the final strength by 6-11%. The starting time of coagulation ranges from 150 minutes to 200 minutes, while the final drying time ranges from 180 minutes to 240 minutes.

#### SHELF-LIFE - STORAGE

18 months after production date, if the product is stored in original and unopened packaging, at temperatures between +5°C and +35°C and protected from direct exposure to sun and frost.

#### Note

- BETO - RET is suitable for all types of Portland cement.
- An overdose can cause accelerated drying but does not affect the final resistances of concrete.
- If the material freezes, turn the temperature in +5°C and stir it until it homogenizes again

## 9.5 CONCRETE ADDITIVES

POLYFIBER 0.6, 1.2, 1.8



Unit of measurement	Pieces/Pallet	Consumption	Color/other specifications
600 gr/bag	8 psc/box	600 - 900 g/m <sup>3</sup>	0.6 cm 1.2 cm 1.8 cm



### POLYFIBER

Polypropylene fibers with a length of 6mm, 12mm and 18mm, for strengthening and reinforcing concrete and mortar.

### TECHNICAL DATA

Analysis	Unit	Results
Length	mm	12
Fibers density	g/cm <sup>3</sup>	0.91
Diameter	µm	33
Breaking tenacity	Mpa	599
Elongation until break	%	27.6
Module (1% tangential line)	Mpa	4665
Melting point		169
Resistance to acids and bases	—	Strong
Type of fibers	—	Polypropylene
Color	—	White

### PACKAGING

Plastic bags of 600 g and 900 g.

### CONSUMPTION

600-900 g/m<sup>3</sup> in concrete.  
900-1200 g/m<sup>3</sup> in mortar



### PLASTOLIT



Unit of measurement	Pieces/Pallet	Consumption	Color/other specifications
1 kg/plastic can	12 pcs/box	300-500 gr/100kg Cement	Brown
5 kg/plastic can	4 pcs/box	--	--
10 kg/plastic can	60 pcs/pallet	--	--
1000 KG/IBC	IBC	--	--



#### PLASTOLIT

Mortar plasticizer- Lime substitute

#### DESCRIPTION

Plastolit is a liquid product that gives plasticity, bonding strength and all lime advantages to cement-based mortar. It is the ideal supplement for the production of mortar for construction, plaster, weak layers, etc. It is added to the water that is poured to mortar, and thanks to its plasticity, the quantity of required water is smaller.

#### PREPARATION

Reduce the amount of water for mortar by substituting the lime with PLASTOLIT.

- Mortar for walls and poor layers: Plastolit 50g to 25 kg cement (0.2%)
- For the preparation of 1m<sup>3</sup> mortar, are needed:

Cement: 225 kg

Sand: 0.90 m<sup>3</sup>

PLASTOLIT: 450 g

- For the preparation of plastering mortar:

75 g PLASTOLIT per 25 kg cement (0.3%).

#### ATTENTION!

Plastolit can be used 18 months after manufacture date, if stored in unopened and original packaging, in temperatures between 5°C and 35°C. It should be protected from exposure to sun and frost. PLASTOLIT provides a better workability when mixed with sand of selected granulometry. Additional dosage (more than 0.4% of cement weight) will reduce mortar hardening.

#### TECHNICAL DATA

Color	dark brown
Viscosity	25 mPa.s
Density	1.05 – 1.1 kg/l
Solids	27 %





## **10. PRODUCTS FOR REPAIR**

## 10.1 PRODUCTS FOR REPAIRING WALL AND CONCRETE STRUCTURES

### EPOWRAP PRIMER



Unit of measurement	Pieces/Pallet	Consumption	Color/other specifications
5 Kg	12 pcs/box 36 pcs/pallet	1.5 Kg/m <sup>2</sup> /mm	Grey



#### EPOWRAP PRIMER

Bi-component, water-based primer.

#### DESCRIPTION

EPOWRAP PRIMER is a water-based, bi-component epoxy-base product. The product offers high physical and mechanical resistance, such as resistance to abrasion, resistance to water, acids, alkalis, petroleum products etc.

#### AREA OF APPLICATION

EPOWRAP PRIMER is used as a PRIMER in cases when you use one of the product of EPO Wrap line of products, to reinforce concrete structures.

#### INSTRUCTIONS FOR USE

The surface must be:

- Stable.
- Without the presence of materials that prevent adhesion, eg powder, loose particles, fats, etc.

The product, also, must be prepared according to the nature of the surface. After this, the surface should be cleaned from dust with a vacuum cleaner.

#### APPLICATION PROCEDURE

Component A (resin) and component B (hardener) are packed in two separate buckets, in predetermined proportion to weight ratio. The entire quantity of component B should be added to component A. The mixing of the two components should continue for about 5 minutes, using a mixer at low- speed (300 rpm / min). It's important to stir well in the edges and at the bottom of the bucket, in order to achieve a complete mixture and a uniform opening of the hardener.

EPOWRAP PRIMER is applied as it is or diluted to 10% with water. The product can be applied with a brush or roller.

#### TECHNICAL DATA

Basis	Bi-component epoxy resin
Color	Transparent
Viscosity (A)	100 mPa.s at +23°C
Viscosity (B)	2.000 mPa.s at +23°C
Viscosity (A+B)	600 mPa.s at +23°C
Density (A)	1,02 kg/lit
Density (B)	1,13 kg/lit
Density (A+B)	1,04 kg/lit
Mixing ratio (A:B)	1:3 by weight
Pot life	approximately 60 min at +20°C
Minimal temperature for hardening	+8°C
Trafficable	After 18 h at +23°C
Final resistances	After 7 days at +23°C
Adhesive strength	> 4 N/mm <sup>2</sup>

#### CONSUMPTION

300 gr/m<sup>2</sup> per layer.

#### PACKAGING

EPOWRAP LEVEL 100 is packaged in boxes of 1 kg component A and 4 kg component B, with the mixture ratio set.

#### SHELF-LIFE - STORAGE

24 months, if stored in its original and unopened packaging, in environments protected by humidity and the direct exposure to sun. Storage temperature should be between +5°C and +35°C

### EPOWRAP LEVEL 100



Unit of measurement	Pieces/Pallet	Consumption	Color/other specifications
5 Kg	12 pcs/box 36 pcs/pallet	1.83 Kg/m <sup>2</sup> /mm	Grey



#### EPOWRAP LEVEL 100

Bi-component, epoxy-based stucco.

#### DESCRIPTION

EPOWRAP LEVEL 100 is epoxy-based, bi-component stucco, without solvent, that offers very adhesion with surfaces and gives high physical - mechanical resistance. It is resistant to acids, alkalis, detergents, sea water and temperature changes. It's classified as a structural connector for mortars and concretes according to EN 1504-4.

#### AREA OF APPLICATION

EPOWRAP LEVEL 100 is used for the restoration of cracks in mortar and concrete, for anchors, as well as in cases when we want to close crevices with EPOLOT 0.1 - 1 mm, EPOLOT 0.5 - 3 mm or EPOLOT. It bonds concrete, iron, stone and wood.

#### MANNER OF APPLICATION

##### 1. Surface

The surface where the product will be applied must be clean, free of residues, oils or other elements that prevent adhesion.

##### 2. Mixing of components

Components A (resin) and B (hardener) are packaged separately from each other, having an exact predetermined mixing ratio by weight. The amount of component B is added to component A. Mixing is done through a suitable mixer for about 5 minutes. It's very important that the mixing is done very thoroughly, by mixing material in the edges and bottom of the container. The mixing of both components must be done in a clean container.

##### 3. Application - Consumption

EPOWRAP LEVEL 100 is applied with spatula on the dry and clean surface.

#### CONSUMPTION

Approximately 1.83 kg/m<sup>2</sup> / mm thickness.

#### PACKAGING

EPOWRAP LEVEL 100 is packaged in boxes of 1 kg component A and 4 kg component B, with the mixture ratio set.

#### SHELF-LIFE - STORAGE

24 months, if stored in its original and unopened packaging, in environments protected by humidity and the direct exposure to sun. Storage temperature should be between +5°C and +35°C.

#### TECHNICAL DATA

Basis	2- component epoxy resins
Form	paste
A component density	1,85 kg/lit
B component density	1,79 kg/lit
Density A+B	1,83 kg/lit
Mixing ratio (A+B)	3 : 1 by weight
Pot life	45 min at +20°C
Final resistance	after 7 days at +23°C
Resistance to compression	96 N/mm <sup>2</sup>
Working time	25 minutes at +20°C
Vitrification temperature	≥ 75°C
Flexural resistance	46 N/mm <sup>2</sup>

## 10.1 PRODUCTS FOR REPAIRING WALL AND CONCRETE STRUCTURES

### EPOWRAP FG 200



Unit of measurement	Pieces/Pallet	Consumption	Color/other specifications
5 Kg	12 pcs/box 36 pcs/pallet	0.7-1 Kg/m <sup>2</sup> /mm	Grey



#### EPOWRAP FG 200

Epoxy-base, bi-component adhesive, for fabrics with carbon fiber.

#### FEATURES

EPOWRAP FG 200 is a bi-component, epoxy adhesive in the form of paste.

After solidification, it ensures high adhesion with the support, excellent strength and increase of resistances in compression and flexion. The product is classified as a structural bonding agent for outdoor concrete reinforcement, according to EN 1504 - 4.

#### AREAS OF APPLICATION

EPOWRAP FG 200 is used for connecting carbon fabric, for the structural reinforcement of building structural elements in systems (F.R.P).

#### MANNER OF APPLICATION

##### Surface preparation:

##### The surface must be:

- Chemical, sufficiently strong and stable.
- Free of materials that might prevent adhesion, such as dust, loose particles, grease or oil, etc. • It is recommended to treat the surface mechanically by roughening it.
- If there are cracks in the concrete, they should be repaired by injection, using materials like EPOLOT.
- The substrate should be as flat as possible.
- Damaged areas should be repaired using EPOWRAP FG 200.

#### MIXING THE COMPONENTS

Components A and B are packaged in two separate containers, in predetermined mixing ratio by weight. Mix thoroughly the entire amount of component A with the entire amount of component B. The components should be stirred for about 5 minutes with an adequate mixer.

#### APPLICATION

After mixing, EPOWRAP FG 200 is applied on the surface through a screed or brush. Then, carbon fiber fabrics are set, and on them is exerted pressure through a dry plastic roller, in order to release the air that is between the concrete and carbonate tile.

#### CONSUMPTION

0.7 - 1 kg/m<sup>2</sup> for 1mm thickness.

#### PACKAGING

EPOWRAP FG 200 is packaged in buckets of 1 kg Component A and 4 kg Component B.

#### STORAGE

24 months after date of production, if stored in unopened and original packaging, protected from direct exposure to sun and frost.

#### TECHNICAL DATA

Base	Epoxy resin
Form	Paste
Color	Grey
Density	1.55 Kg/L
Pot life	60 min
Adhesive strength	20 N/mm <sup>2</sup>
Elasticity module	10 N/mm <sup>2</sup>

### EPOWRAP AD 300



Unit of measurement	Pieces/Pallet	Consumption	Color/other specifications
5 Kg	12 pcs/box 36 pcs/pallet	0.5-1 Kg/m <sup>2</sup> /mm	Grey



#### EPOWRAP AD 300

Epoxy-base, bi-component adhesive, super fluid, for fabrics with carbon fiber.

#### FEATURES

EPOWRAP AD 300 is a bi-component, epoxy adhesive in fluid form. After solidification, it ensures high adhesion with the support, excellent strength and increase of resistances in compression and flexion. The product is classified as a structural bonding agent for outdoor concrete reinforcement, according to EN 1504 - 4.

#### AREAS OF APPLICATION

EPOWRAP AD 300 is used for connecting carbon fabric, for the structural reinforcements of building structural elements in systems (F.R.P).

#### MANNER OF APPLICATION

##### Surface preparation

##### The surface must be:

- Chemical, sufficiently strong and stable.
- Free of materials that might prevent adhesion, such as dust, loose particles, grease or oil, etc.
- It is recommended to treat the surface mechanically by roughening it.
- If there are cracks in the concrete, they should be repaired by injection, using materials like EPOLOT.
- The substrate should be as flat as possible.
- Damaged areas should be repaired using EPOWRAP LEVEL 100.

#### MIXING THE COMPONENTS

Components A and B are packaged in two separate containers, in predetermined mixing ratio by weight. Mix thoroughly the entire amount of component A with the entire amount of component B. The components should be stirred for about 5 minutes with an adequate mixer.

#### APPLICATION

After mixing, EPOWRAP AD 300 is applied on the surface through a screed or brush. Then, carbon fiber fabrics are set, and on them is exerted pressure through a dry plastic roller, in order to release the air that is between the concrete and carbonate tile.

#### CONSUMPTION

0.5 - 1.0 kg/m<sup>2</sup> for 1mm thickness

#### PACKAGING

EPOWRAP AD 300 is packaged in buckets of 1 kg Component A and 4 kg Component B

#### STORAGE

24 months after date of production, if stored in unopened and original packaging, protected from direct exposure to sun and frost.

#### TECHNICAL DATA

Base	Epoxy resin
Form	Fluid
Color	Grey
Density	1.55 Kg/L
Pot life	60 min
Adhesive strength	20 N/mm <sup>2</sup>
Elasticity module	10 N/mm <sup>2</sup>

## 10.1 PRODUCTS FOR REPAIRING WALL AND CONCRETE STRUCTURES

### EPOWRAP IM 400



Unit of measurement	Pieces/Pallet	Consumption	Color/other specifications
5 Kg	12 pcs/box 36 pcs/pallet	1.5-2 Kg/m <sup>2</sup> /mm	Grey



#### EPOWRAP IM 400

Epoxy-base, bi-component adhesive, for tiles with carbon fibers.

#### FEATURES

EPOWRAP IM 400 is a bi-component, epoxy adhesive in paste form. After solidification, it ensures high adhesion with the support, excellent strength and increase of resistances in compression and flexion. The product is classified as a structural bonding agent for outdoor concrete reinforcement, according to EN 1504 - 4.

#### AREAS OF APPLICATION

EPOWRAP IM 400 is used for connecting carbon tiles, for the structural reinforcements of building structural elements in systems (F.R.P).

#### MANNER OF APPLICATION

##### Surface preparation

The surface must be:

- Chemical, sufficiently strong and stable.
- Free of materials that might prevent adhesion, such as dust, loose particles, grease or oil, etc.
- It is recommended to treat the surface mechanically by roughening it.
- If there are cracks in the concrete, they should be repaired by injection, using materials like EPOLOT.
- The substrate should be as flat as possible.
- Damaged areas should be repaired using EPOWRAP IM 400 .

#### MIXING THE COMPONENTS

Components A and B are packaged in two separate containers, in predetermined mixing ratio by weight. Mix thoroughly the entire amount of component A with the entire amount of component B. The components should be stirred for about 5 minutes with an adequate mixer.

#### APPLICATION

After mixing, EPOWRAP IM 400 is applied on the surface through a screed or brush. Then, carbon fiber fabrics are set, and on them is exerted pressure through a dry plastic roller, in order to release the air that is between the concrete and carbonate tile.

#### CONSUMPTION

1.5- 2.0 kg/m<sup>2</sup> for 1mm thickness

#### PACKAGING

EPOWRAP IM 400 is packaged in buckets of 1 kg Component A and 4 kg Component B.

#### STORAGE

24 months after date of production, if stored in unopened and original packaging, protected from direct exposure to sun and frost.

#### TECHNICAL DATA

Base	Epoxy resin
Form	Paste
Color	Grey
Density	1.55 Kg/L
Pot life	60 min
Adhesive strength	20 N/mm <sup>2</sup>
Elasticity module	10 N/mm <sup>2</sup>

## UNIWRAP CFP 300



Unit of measurement	Pieces/Pallet	Color/other specifications
mL	1 pcs/box	50m x 30cm / 220gr/m <sup>2</sup>
--	--	50m x 30cm / 280gr/m <sup>2</sup>
--	--	50m x 50cm / 220gr/m <sup>2</sup>
--	--	50m x 50cm / 280gr/m <sup>2</sup>



### UNIWRAP CFP 300

Fabric with carbon fibers for structural reinforcements of concrete.

#### FEATURES

- Carbon fibers, steady in one direction
- Combination with epoxy resins EPOWRAP FG – 200 forms a composite material.
- Strengthening external structural elements and allows the diffusion of vapors.
- High elastic resistance and insulation.

#### AREAS OF APPLICATION

Carbonate fabric UNIWRAP CFP - 300 is used as an outdoor reinforcement, for outdoor adhesion and bonding of structural elements with the epoxy resin EPOWRAP FG - 200, for the increase of mechanical forces of beams and concrete columns, for the improvement of the connection of columns by:

- Strengthening structures with high resistances to seismic movements
  - Protecting and strengthening concrete elements from corrosion.
  - Increasing cargos, until the change of usage destination
  - Repairing concrete structures after damage from earthquakes.
- Strengthening with composite materials can be applied to concrete, wood and steel elements and retaining walls.

#### MANNER OF APPLICATION

##### 1. Surface

The surface must be free of detached parts, plaster, paint, oil or grease. After a thorough cleaning, the surface is roughened by a metallic brush.

- Existing cracks in the concrete should be repaired by injections with EPOLOT products.

- External corners must be rounded to a radius of 10 - 30 mm.
- Surface should be as flat as possible.

Any superficial defects should be repaired using EPOWRAP PRIMER.

#### APPLICATION

Firstly, apply EPOWRAP FG – 200 on the surface which will be treated. Then, UNIWRAP CFP - 300 is cut with scissors in the desired dimensions. After careful placement on the surface, the fabric is slowly applied by a special plastic roller in order to achieve a better contact with the surface, complete impregnation and removal of air bubbles. Fabric direction should follow the direction of elastic forces and its fibers should be as straight as possible. During the insulation of columns, the superposition of fabric should be approximately 15 - 20 cm.

- If more than one layer of application is needed, the above-mentioned process is repeated. In this case, the previous layer should not be completely dry; otherwise, you should roughen the surface again.
- Following that, the fabric layer is covered on the outside with EPOWRAP FG - 200 and then, quartz sand is poured on the layer as long as it is still fresh, in order to apply later a protective, cement-based layer.

#### PACKAGING

UNIWRAP CFP – 300 carbonate fabric, is available in 50 m long and 60 cm wide packaging.

#### TECHNICAL DATA

Weight of carbon fibers	200 g/m <sup>2</sup>
Total weight of the fabric	224 g/m <sup>2</sup>
Thickness	0,11 mm
Width of fabric	60 cm (± 1 cm)
Length of fabric	50 m (± 0,5 m)
Weight of fabric	6,7 kg

## 10.1 PRODUCTS FOR REPAIRING WALL AND CONCRETE STRUCTURES

### UNIWRAP CFF 400



Unit of measurement	Pieces/Pallet	Color/other specifications
mL	1 pcs/box	50m x 5cm / 300gr/m <sup>2</sup>
--	--	50m x 10cm / 300gr/m <sup>2</sup>
--	--	50m x 15cm / 300gr/m <sup>2</sup>
--	--	50m x 20cm / 300gr/m <sup>2</sup>



#### UNIWRAP CFF 400

Carbon plates for structural strengthening

#### FEATURES

- Prefabricated tiles that consist of 100% one-way carbon fiber, found in an epoxy resin matrix
- In combination with EPOWRAP FG - 200 forms a composite material
- Strengthening of concrete structural elements
- Allows vapor diffusion
- Ensures high tensile and flexural forces

#### AREA OF APPLICATION

Carbon tiles UNIWRAP CFF - 400 are used as external reinforcement, for outdoor adhesion and bonding of structural elements with the epoxy resin EPOWRAP FG - 200, for the increase of mechanical forces of beams and concrete columns, for the improvement of the connection of columns by:

- Strengthening structures with high resistances to seismic movements
  - Protecting and strengthening concrete elements from corrosion.
  - Increasing cargos, until the change of usage destination
  - Repairing concrete structures after damage from earthquakes.
- Strengthening with composite materials can be applied to concrete, wood and steel elements and retaining walls.

#### MANNER OF APPLICATION

##### 1. Surface

The surface must be free of detached parts, plaster, paint, oil or grease. After thorough cleaning, the surface is roughened by a metallic brush.

- Existing cracks in the concrete should be repaired by injections with EPOLOT products.

- External corners must be rounded to a radius of 10 - 30 mm.

- Surface should be as flat as possible.

Any superficial defects should be repaired using EPOWRAP PRIMER.

#### APPLICATION

Firstly, apply EPOWRAP IM -400 on the surface which will be treated. Then, UNIWRAP CFF - 400 is put carefully on the surface. Tiles are slowly applied by a special plastic roller in order to achieve a better contact with the surface, complete impregnation and removal of air bubbles. Tile direction should follow the direction of elastic forces and its fibers should be as straight as possible.

- If more than one layer of application is needed, the above-mentioned process is repeated. In this case, the previous layer should not be completely dry; otherwise, you should roughen the surface again.
- Following that, the fabric layer is covered on the outside with EPOWRAP IM - 400 and then, quartz sand is poured on the layer, as long as it is still fresh, in order to apply later a protective, cement-based layer (plaster).
- If more than one layer of fabric is specified, repeat the above-mentioned process. In this case the previous layer should not be completely dry, otherwise rubbing is necessary before starting the new application.
- Then, the last fabric layer is brushed off from the outside with EPOWRAP IM - 400 and then quartz sand is placed on the resin layer which is still wet, so as later to apply a protective, cement-based layer (plaster).

#### TECHNICAL DATA

Tensile strength (MPa)	2800
Modulus of elasticity (GPa)	163
Ultimate strain (%)	1,60
Density (g/cm <sup>3</sup> )	1,60

## UNIWRAP WALL 200



Unit of measurement	Pieces/Pallet	Color/other specifications
mL	1 pcs/box	50m x 1m / 250gr/m <sup>2</sup>



### UNIWRAP WALL 200

Carbon fiber fabric for structural strengthening of buildings in seismic areas.

#### FEATURES

- Carbon fibers that continue in one direction.
- In combination with epoxy resins EPOWRAP FG – 200, it forms a composite material.
- Strengthens external structural elements and allows the diffusion of vapors.
- High elastic resistances and insulation.

#### AREA OF APPLICATION

Carbon fabric UNIWRAP WALL 200 are used as external reinforcement, for outdoor adhesion and bonding of structural elements with the epoxy resin EPOWRAP FG - 200, for the increase of mechanical forces of beams and concrete columns, for the improvement of the connection of columns by:

- Strengthening structures with high resistances to seismic movements
- Protecting and strengthening concrete elements from corrosion.
- Increasing cargos, until the change of usage destination
- Repairing concrete structures after damage from earthquakes.

Strengthening with composite materials can be applied to concrete, wood and steel elements and retaining walls.

#### PROCEDURE OF APPLICATION

##### 1. Surface

The surface must be free of detached parts, plaster, paint, oil or grease. After a thorough cleaning, the surface is roughened by a metallic brush.

- Existing cracks in the concrete should be repaired by injections with EPOLOT products.
- External corners must be rounded to a radius of 10 - 30 mm.
- Surface should be as flat as possible.

Any superficial defects should be repaired using EPOWRAP PRIMER. Firstly, apply EPOWRAP FG –200 on the surface which will be treated. Then, UNIWRAP WALL 200 is cut with scissors in the desired dimensions. After careful placement on the surface, the fabric is slowly applied by a special plastic roller in order to achieve a better contact with the surface, complete impregnation and removal of air bubbles. Fabric direction should follow the direction of elastic forces and its fibers should be as straight as possible. During the insulation of columns, the superposition of fabric should be approximately 15 - 20 cm.

- If more than one layer of application is needed, the above-mentioned process is repeated. In this case, the previous layer should not be completely dry; otherwise, you should roughen the surface again.
- Following that, the fabric layer is covered on the outside with EPOWRAP FG - 200 and then, quartz sand is poured on the layer as long as it is still fresh, in order to apply later a protective, cement-based layer (plaster).

#### PACKAGING

UNIWRAP WALL 200 carbonate fabric is available in 50 m long and 60 cm wide packaging.

#### TECHNICAL DATA

Weight of carbon fibers	200 g/m <sup>2</sup>
Total weight of the fabric	224 g/m <sup>2</sup>
Thickness	0,11 mm
Width of fabric	60 cm (± 1 cm)
Length of fabric	50 m (± 0,5 m)
Weight of fabric	6,7 kg

## 10.2 EPOXY PRODUCT FOR INJECTION AND ANCHORING

### EPOLOT LV 011



Unit of measurement	Pieces/Pallet	Color/other specifications
1 Kg A+B	10 pcs/box	Transparent



#### EPOLOT LV 011

Bi-component, epoxy resin for injection, solvent free, thin liquid, zero shrinkage

#### FEATURES

Bi-component, epoxy resin for injection, solvent free, thin liquid, zero shrinkage. Its fluidity allows regulation of small cracks. It presents high adhesion in reinforced concrete and steel. It has high resistance to compression, flexion and acids. Not affected by alkalis, frosts and humidity.

#### AREA OF APPLICTION

EPOLOT LV - 011 is used to implement resin injections in concretes cracks which are 0,1 - 1 mm wide. It is recommended for the repair of cracks on bridges, tunnels, dams, columns, beams that crack due to overload, earthquakes, etc. It guarantees a complete rehabilitation, by bringing back the initial compactness to the building element. It is suitable for bonding new concrete with the existing one. It offers the only solution to the later planting of metal framework in horizontal or vertical surfaces of reinforced concrete. It bonds same or different materials, except for polyethylene and Teflon, offering very powerful bonding dynamic.

#### MANNER OF APPLICATION

##### 1. Prepare the surface

The substrate should be free from rotten materials, dust, oils, and water ponds.

##### 2. Preparation for application

Stir the two components A and B in the ratio of 3: 1 with narrow spatula as long as a completely homogeneous mixture is created, for 3-4 minutes.

##### 3. APPLICATION

a) ) Resin injection: Remove from both sides of the crack, in case of plaster, dust with compressed air, thus cleaning the concrete. Seal with the epoxy putty DW 9000 EPO - UNI throughout the entire length of the crack, by putting injection nozzles every 25 cm. Vertical cracks should be filled by using a multifunctional pistol starting from the lowest point of height upward, and seal the nozzles with caps after pouring EPOLOT-LV - 011.

b) Framework planting: open holes with a diameter larger than that of metal framework and in the maximal depth possible. In horizontal surfaces, holes need to see upward. Once removed the dust, fill that



amount with EPOLOT LV – 011, in order for the resin to easily flow after setting the framework.

#### CONSUMPTION

Sealing cracks: 1.1 kg/l empty volume.

#### TECHNICAL FEATURES

Chemical base	Bi-component epoxy resin
Color (A+B)	Transparent, Yellow (A: Transparent B: Yellow)
Viscosity (A+B)	970 cP (Brookfield, 20 rpm, spindle No 3)
Specific weight (A+B)	1,10 Kg/lt
Pot life in container	60 minutes at 20°C (time decreases with temperature increase)
Application temperature	From +5°C to +40°C
Thermal resistance	From -20°C to +100°C
Final resistance	7 days in 23°C

#### MECHANICAL RESISTANCES

Resistance according to EN 196-1 in

• Compression 37 N/mm<sup>2</sup>

• Flexion 72 N/mm<sup>2</sup>

Resistance according to EN 1348 at

• Detachment 4 N/mm<sup>2</sup>

#### STORAGE

It is stored in well-closed packaging, in dry places and at temperatures higher than +10°C, for at least 24 months after manufacture date

### EPOLOT MV 130



Unit of measurement	Pieces/Pallet	Color/other specifications
1 Kg A+B	10 pcs/box	Transparent
4 kg A+B	4 pcs/box	--



#### EPOLOT MV 130

Bi-component, epoxy resin for injection, solvent free, thin liquid, zero shrinkage

#### FEATURES

Bi-component, epoxy resin for injection, solvent free, thin liquid, zero shrinkage. Its fluidity allows regulation of small cracks. It presents high adhesion in reinforced concrete and steel. It has high resistance to compression, flexion and acids. Not affected by alkalis, frosts and humidity.

#### AREA OF APPLICTION

EPOLOT MV - 130 is used to implement resin injections in concretes cracks which are 1 - 3 mm wide. It is recommended for the repair of cracks on bridges, tunnels, dams, columns, beams that crack due to overload, earthquakes, etc. It guarantees a complete rehabilitation, by bringing back the initial compactness to the building element. It is suitable for bonding new concrete with the existing one. It offers the only solution for the later planting of metal framework in horizontal or vertical surfaces of reinforced concrete. It bonds same or different materials, except for polyethylene and Teflon, offering very powerful bonding dynamic.

#### MANNER OF APPLICATION

##### 1. Prepare the surface

The substrate should be free from rotten materials, dust, oils, and water ponds.

##### 2. Preparation for application

Stir the two components A and B in the ratio of 3: 1 with narrow spatula as long as a completely homogeneous mixture is created, for 3-4 minutes.

##### 3. APPLICATION

a) Resin injection: Remove from both sides of the crack, in case of plaster, dust with compressed air, thus cleaning the concrete. Seal with the epoxy putty DW 9000 EPO - UNI throughout the entire length of the crack, by putting injection nozzles every 25 cm. Vertical cracks should be filled by using a multifunctional pistol starting from the lowest point of height upward, and seal the nozzles with caps after pouring EPOLOT MV - 130.

b) Framework planting: open holes with a diameter larger than that of metal framework and in the maximal depth possible. In horizontal surfaces, holes should be see upward. Once removed the dust, fill that amount with EPOLOT MV - 130, in order for the resin to easily flow after setting the framework.

#### CONSUMPTION

For sealing cracks: 1.1 kg / l empty volume.

#### TECHNICAL FEATURES

Chemical base	Bi-component epoxy resin
Color (A+B)	Transparent, Yellow (A: Transparent B: Yellow)
Viscosity (A+B)	970 cP (Brookfield, 20 rpm, spindle No 3)
Specific weight (A+B)	1,10 Kg/lt
Pot life in container	60 minutes at 20°C (time decreases when temperature increases)
Application temperature	From +5°C to +40°C
Thermal resistance	From -20°C to +100°C
Final resistance	7 days at 23°C

#### MECHANICAL RESISTANCES

Resistance according to EN 196-1 in

- Compression 37 N/mm<sup>2</sup>
- Flexion 72 N/mm<sup>2</sup>

Resistance according to EN 1348 at

- Detachment 4 N/mm<sup>2</sup>

#### STORAGE

It is stored in well-closed packaging, in dry places and at temperatures higher than +10°C, for at least 24 months after manufacture date.



## 10.2 EPOXY PRODUCT FOR INJECTION AND ANCHORING

### EPOLOT HV 300



Unit of measurement	Pieces/Pallet	Color/other specifications
1 Kg A+B	10 pcs/box	Grey
4kg A+B	4 pcs/box	--



#### EPOLOT HV 300

Bi-component, epoxy resin for injection, solvent free, thin liquid, zero shrinkage

#### FEATURES

Bi-component, epoxy resin for injection, solvent free, thin liquid, zero shrinkage. Its fluidity allows regulation of small cracks. It presents high adhesion in reinforced concrete and steel. It has high resistance to compression, flexion and acids. Not affected by alkalis, frosts and humidity.

#### AREA OF APPLIATION

EPOLOT HV - 300 is used to implement resin injections in concretes cracks which are over 3 mm wide. It is recommended for the repair of cracks on bridges, tunnels, dams, columns, beams that crack due to overload, earthquakes, etc. It guarantees a complete rehabilitation, by bringing back the initial compactness to the building element. It is suitable for bonding new concrete with the existing one. It offers the only solution for the later planting of metal framework in horizontal or vertical surfaces of reinforced concrete. It bonds same or different materials, except for polyethylene and Teflon, offering very powerful bonding dynamic.

#### MANNER OF APPLICATION

##### 1. Prepare the surface

The substrate should be free from rotten materials, dust, oils, and water ponds.

##### 2. Preparation for application

Stir the two components A and B in the ratio of 3: 1 with narrow spatula as long as a completely homogeneous mixture is created, for 3-4 minutes.

##### 3. APPLICATION

a) Resin injection: Remove from both sides of the crack, in case of plaster, dust with compressed air, thus cleaning the concrete. Seal with the epoxy putty DW 9000 EPO - UNI throughout the entire length of the crack, by putting injection nozzles every 25 cm. Vertical cracks should be filled by using a multifunctional pistol starting from the lowest point of height upward, and seal the nozzles with caps after pouring EPOLOT-LV - 011.

b) Framework planting: open holes with a diameter larger than that

of metal framework and in the maximal depth possible. In horizontal surfaces, holes should be set upward. Once removed the dust, fill that amount with EPOLOT HV - 300, in order for the resin to easily flow after setting the framework.

#### CONSUMPTION

Sealing cracks: 1.1 kg/l empty volume.

#### TECHNICAL FEATURES

Chemical base	Bi-component epoxy resin
Color (A+B)	Transparent, Yellow (A: Transparent B: Yellow)
Viscosity (A+B)	970 cP (Brookfield, 20 rpm, spindle No 3)
Specific weight (A+B)	1,10 Kg/l
Pot life in container	60 minutes at 20°C (time decreases when temperature increases)
Application temperature	From +5°C to +40°C
Thermal resistance	From -20°C to +100°C
Final resistance	7 days at 23°C

#### MECHANICAL RESISTANCES

Resistance according to EN 196-1 in

- Compression 37 N/mm<sup>2</sup>
- Flexion 72 N/mm<sup>2</sup>

Resistance according to EN 1348 at

- Detachment 4 N/mm<sup>2</sup>

#### SHELF LIFE - STORAGE

It is stored in well-closed packaging, in dry places and at temperatures higher than +10°C, for at least 24 months after manufacture date.

### EPO REPAIR ULTRA



Unit of measurement	Pieces/Pallet	Consumption	Color/other specifications
20 kg/sack	54 pcs/pallet	1.5kg/m <sup>2</sup> /mm	Grey
1 kg/bucket	12 pcs/box		
4 kg/bucket	36 pcs/pallet		



#### EPO REPAIR ULTRA

Three-component, epoxy - cement based product, for repairs of concrete structures and anchoring metal structures.

#### FEATURES

Three-component, epoxy - cement based product, for repairs of concrete structures and anchoring metal structures with high mechanical resistance, no shrinkage, for indoor and outdoor use. It offers good workability, adhesion, resistance to frost, strikes and humidity. Thanks to its hydraulic connections, special polymers, selected inert and synthetic fibers, as well as epoxy resin it contains, it does not crack.

#### AREA OF APPLICATION

EPO REPAIR ULTRA, suitable for fixations, anchoring, metal structures, sealing holes, and generally in places where high resistance is required.

#### MANNER OF PREPARATION

##### 1. Surface preparation

The substrate must be free from dust and rotten materials and it should be watered thoroughly or be primed with Epoxy PRIMER W 4000.

##### 2. APPLICATION

Pour cement powder in the amount of epoxy components A and B, which were mixed beforehand, and stir with a low- speed drill until of a homogenous mixture is created, suitable for any use. The mixture will remain workable for 60 minutes and is applied with a trowel for repairs or by pouring for anchoring.

#### TECHNICAL DATA (IN 23°C AND 50% RH)

Toxic / flammable (according to EN 88/379)	no
Specific weight of dry powder	1,47 ± 0,05 kg/lt
Specific weight of wet powder	2,00 ± 0,05 kg/lt
Maximum diameter of grain	1.5 mm
Application temperature	From +5°C to +35°C
Thermal resistance	From -30°C to +80°C
Pot life in container	50 minutes

#### MECHANICAL RESISTANCES

Resistance to flexion after 28 days, according to EN 196-1	38,00 ± 1,00N/mm <sup>2</sup>
Resistance to compression, according to EN 196-1 after	
• 48 hours	72,00 ± 3,00 N/mm <sup>2</sup>
• 7 days	90,00 ± 2,00 N/mm <sup>2</sup>
• 28 days	130,00 ± 1,00 N/mm <sup>2</sup>

#### CONSUMPTION

About 18 kg/m<sup>2</sup> / cm thickness layer.

## 10.3 CEMENT-BASED PRODUCTS FOR CRACKS, PLANTING AND BONDING

### WALL GROUT FIX



Unit of measurement	Pieces/Pallet	Consumption	Color/other specifications
25 kg/sack	54 pcs/pallet	1,5-2 Kg/m <sup>2</sup> /mm	Grey



#### WALL GROUT FIX

Cement-based mortar with quick drying, for repairs of masonry joints.

#### FEATURES

Cement dust for repairs with high mechanical resistance, no shrinkage, for internal and external use. It offers high workability, adhesiveness, resistance to frost, strikes and moisture. Thanks to its hydraulic connections, special polymers, selected inert and synthetic fibers it contains, it does not crack.

#### AREA OF APPLICATION

WALL GROUT FIX, is suitable for repair of masonry joints in interior and exterior walls, as well as in masonries where we want to reinforce the mortar of wall.

#### METHOD OF USE

##### 1. Prepare the surface

The substrate must be free from dust and rotten materials, and it should be thoroughly wetted or primed with the micro- molar stabilizer BETON CONTACT, before the application of the product.

##### 2. APPLICATION

Pour the cement powder into clean water, to the ratio of 25 kg powder in 5.5 L of water and mix with low- speed drill or concrete mixer until a homogenous mixture is created, suitable for any use. The mixture will remain workable for 10 minutes and is applied with trowel for repairs or pouring machinery for surfaces that need a covering material with high mechanical resistances.

#### TECHNICAL DATA (IN 23°C AND 50% RH)

Form - Color	Cement powder- Grey
Toxic / flammable (per EN 88/379)	no
Specific weight of dry powder	1,47 ±0,05 kg/lt
Specific weight of wet powder	2,00 ±0,05 kg/lt
Maximum diameter of grain	1.5 mm
Water demand	5,5 lt water to 25 kg powder
Application temperature	From +5°C to +35°C
Thermal resistance	From -30°C to +80°C
Pot life in container	5 minutes

#### MECHANICAL RESISTANCES

Resistance to flexion after 28 days, according to EN 196-1	10,00 ± 1,00N/mm <sup>2</sup>
Resistance to compression, according to EN 196-1, after	
• 48 hours	32,00 ± 3,00 N/mm <sup>2</sup>
• 7 days	40,00 ± 2,00 N/mm <sup>2</sup>
• 28 days	60,00 ± 1,00 N/mm <sup>2</sup>

#### CONSUMPTION

About 18 kg/m<sup>2</sup> / cm thickness layer

## GP 70 FAST



Unit of measurement	Pieces/Pallet	Consumption	Color/other specifications
5 kg/bag	4 pcs/box	1.5 kg/m <sup>2</sup> for mm thickness	Grey



### GP 70 FAST

Powder specifically for cement-based repairs that hardens quickly, with high resistances.

### FEATURES

This powder is specifically for cement-based repairs; it hardens quickly and has high resistances. Ideal for projects where speed in their execution or completion is needed. It does not contain chlorides or corrosive contents. Only if you add water, you will get a mixture which is workable for 7 minutes, while the solidification procedure starts after 15 minutes. Resistance that develops in one hour is equal to that of a simple plaster after 24 hours. It has high resistance in frost, humidity and abrasion from chemical substances such as nitric salts, sulfur and chlorides. It represents high adhesiveness with the substrate, excellent workability, zero shrinkage and does not crack.

### AREA OF APPLICATION

GP 70 FAST is recommended for safe and fast stabilizations in meshes for plasters in outdoor and indoor surfaces, for power distribution boxes, thus substituting plaster cast with a resistance that is 40 times higher in compression and does not have the risk of being destroyed due to rain and humidity. It is necessary for hydraulic applications in wells. It is suitable for machine anchoring, metallic railing and pillar fixation in concrete walls. It is effective for sealing holes in concrete walls, floors or ceilings, and also for putting angle bead profiles (angle protectors).

### MANNER OF APPLICATION

#### 1. Prepare the surface

The substrate must be free from dust and rotten materials, and it should be thoroughly wetted in order to have a high adhesion.

#### 2. APPLICATION

Pour GP 70 FAST into clean water, to the ratio of 3 kg powder in 0,7 - 0,8 l of water, depending on the application, and mix well until a homogenous mixture is created. Every layer is applied in a thickness up to 3 cm.

### TECHNICAL DATA (IN 23°C AND 50% RH)

Form - Color	Cement powder-Grey
Toxic / flammable (per EN 88/379)	no
Specific weight of dry powder	1,42 ± 0,05 kg/lit
Specific weight of wet powder	2,00 ± 0,05 kg/lit
Maximum diameter of grain	0,7 mm
Water demand	0,7 lt water to 3 kg powder
Application temperature	From +5°C to +30°C
Thermal resistance	From -30°C to +200°C
Pot life in container	7 minutes
Contraction according to ASTM C596	Zero
Resistance in continuous humidity	Excellent

### MECHANICAL RESISTANCES

Resistance to flexion after 28 days, according to EN 196-1	7,50 ± 1,00 N/mm <sup>2</sup>
Resistance to compression, according to EN 196-1, after	
• 24 hours	8,90 ± 2,00 N/mm <sup>2</sup>
• 7 days	23,50 ± 1,00 N/mm <sup>2</sup>
• 28 days	35,00 ±

### CONSUMPTION

About 18 kg/m<sup>2</sup>/ cm thickness layer

### SHELF LIFE - STORAGE

It is stored in well-closed packaging, in dry places and at temperatures higher than +10°C, for at least 24 months after manufacture date.



## 10.3 CEMENT-BASED PRODUCTS FOR CRACKS, PLANTING AND BONDING

### FIBREN GP 70



Unit of measurement	Pieces/Pallet	Consumption	Color/other specifications
25 kg/sack	54 pcs/pallet	1,5 kg/m <sup>2</sup> for mm thickness	Grey
5 kg/bag	4 pcs/box	--	--



#### FIBREN GP 70

Cement-based, repairing mortar, with synthetic resins and special additives.

#### FEATURES

Cement powder, for repairs with high mechanical resistance, for fillings up to a thickness of 60 mm / later, does not contract, for indoor and outdoor uses. It offers excellent workability, adhesion, resistance to frost, strikes and humidity. Thanks to its hydraulic connections, special polymers, selected inerts and synthetic fibers it contains, it does not crack and does not slip in large thicknesses.

#### AREA OF APPLICATION

FIBREN GP 70, repairs all types of irregular constructions in a thickness of 6 cm, with one layer, without moulds. It is suitable for all types of repair works in concrete, for adjusting broken corners in ladders, balconies, columns, holes, gutter creation.

#### MANNER OF APPLICATION

##### 1. Prepare the surface

The substrate must be free from dust and rotten materials, and it should be thoroughly wetted or primed with the micromolar stabilizer BETON CONTACT, before application.

##### 2. APPLICATION

Pour the cement powder into clean water, to the ratio of 25 kg powder in 5,5 l of water, and stir with a low-speed drill or mixer depending until a homogenous mixture is created, suitable for any use. The mixture remains workable for 3 hours and is applied through trowel for repairs, and through a pouring machinery if the surfaces need a covering material with high mechanical resistances.

#### TECHNICAL DATA (IN 23°C AND 50% RH)

Form - Color	Cement powder-Grey
Toxic / flammable (per EN 88/379)	no
Specific weight of dry powder	1,47 ±0,05 kg/lt
Specific weight of wet powder	2,00 ±0,05 kg/lt
Maximum diameter of grain	1.5 mm
Water demand	5,5 lt water to 25 kg powder
Application temperature	From +5°C to +35°C
Thermal resistance	From -30°C to +80°C
Pot life in container	3 hours
Maximal thickness for application	6 cm

#### MECHANICAL RESISTANCES

Resistance to flexion after 28 days, according to EN 196-1	8,00 ± 1,00N/mm <sup>2</sup>
Resistance to compression, according to EN 196-1, after	
• 48 hours	22,00 ± 3,00 N/mm <sup>2</sup>
• 7 days	30,00 ± 2,00 N/mm <sup>2</sup>
• 28 days	50,00 ± 1,00 N/mm <sup>2</sup>

#### PACKAGING

Paper sacks of 25 kg.

#### CONSUMPTION

About 18 kg/m<sup>2</sup> / cm thickness layer

## FIXATIV A11



Unit of measurement	Pieces/Pallet	Consumption	Color/other specifications
25 kg/sack	54 pcs/pallet	1,5-2 Kg/m <sup>2</sup> /mm	Grey



### FIXATIV A11

Cement-based, quick drying mortar, for repairs of concrete structures and anchoring.

### FEATURES

Cement powder for repairs with high mechanical resistance, does not shrink, for indoor and outdoor use. It offers excellent workability, adhesion, resistance to freezing, strikes and humidity. Thanks to its hydraulic connection, special polymers, selected inerts and synthetic fibers, it does not crack.

### AREA OF APPLICATION

FLOWBET 11, is suitable for quick repairs of concrete elements, for fixations, anchoring, holes sealing, gutter creation, and in general in those places where high resistance and quick work is required.

### MANNER OF APPLICATION

#### 1. Surface preparation:

The substrate should be clean and free of dust or rotten materials; it should be wetted well or be primed with the micromolecular stabilizer BETON CONTACT before its application.

#### 2. APPLICATION

Pour the cement powder into clean water, in a ratio of 25 kg powder in 5,5 l water and stir them with a low-rotation drill or with a concrete mixer, until you acquire a homogeneous mixture, which is suitable for any type of use. The mixture is workable for 10 minutes; it is applied with a trowel in cases of repairs, or with a pouring machine if the surfaces need a covering material with high mechanical resistance.

### TECHNICAL DATA (IN 23°C AND 50% RH)

Form - Color	Cement powder-Grey
Toxic / flammable (per EN 88/379)	no
Specific weight of dry powder	1,47 ± 0,05 kg/l
Specific weight of wet powder	2,00 ± 0,05 kg/l
Maximum diameter of grain	1.5 mm
Water demand	5,5 lt water to 25 kg powder
Application temperature	From +5°C to +35°C
Thermal resistance	From -30°C to +80°C
Pot life in container	10 minutes

### MECHANICAL RESISTANCES

Resistance to flexion after 28 days, according to EN 196-1	8,00 ± 1,00N/mm <sup>2</sup>
Resistance to compression, according to EN 196-1, after	
• 48 hours	22,00 ± 3,00 N/mm <sup>2</sup>
• 7 days	30,00 ± 2,00 N/mm <sup>2</sup>
• 28 days	50,00 ± 1,00 N/mm <sup>2</sup>

### PACKAGING

Paper sacks of 25 kg.

### CONSUMPTION

About 18 kg/m<sup>2</sup> / cm thickness layer

## 10.3 CEMENT-BASED PRODUCTS FOR CRACKS, PLANTING AND BONDING

### FIXATIV B22



Unit of measurement	Pieces/Pallet	Consumption	Color/other specifications
25 kg/sack	54 pcs/pallet	1,5-2 Kg/m <sup>2</sup> /mm	Grey



#### FIXATIV B22

Cement-based, quick drying mortar for anchoring metallic structures.

#### FEATURES

Cement powder for repairs with high mechanical resistance, does not shrink, for indoor and outdoor use. It offers excellent workability, adhesion, resistance to freezing, strikes and humidity. Thanks to its hydraulic connections, special polymers, selected inerts and synthetic fibers, it does not crack.

#### AREA OF APPLICATION

FIXATIV B22, is suitable for fixations, anchoring, metallic structures, holes sealing, and generally in those places where high resistance and quick work is required.

#### MANNER OF APPLICATION

##### 1. Surface preparation:

The substrate should be clean and free of dust or rotten materials; it should be wetted well or be primed with the micromolecular stabilizer BETON CONTACT before its application.

##### 2. APPLICATION

Pour the cement powder into clean water, in a ratio of 25 kg powder in 5,5 l water and stir them with a low-rotation drill or with a concrete mixer, until you acquire a homogeneous mixture, which is suitable for any type of use. The mixture is workable for 10 minutes; it is applied with a trowel in cases of repairs, or with a pouring machine if the surfaces need a covering material with high mechanical resistance.

#### TECHNICAL DATA (IN 23°C AND 50% RH)

Form - Color	Cement powder-Grey
Toxic / flammable (per EN 88/379)	no
Specific weight of dry powder	1,47 ±0,05 kg/lit
Specific weight of wet powder	2,00 ±0,05 kg/lit
Maximum diameter of grain	1.5 mm
Water demand	5,5 lt water to 25 kg powder
Application temperature	From +5°C to +35°C
Thermal resistance	From -30°C to +80°C
Pot life in container	15 minutes

#### MECHANICAL RESISTANCES

Resistance to flexion after 28 days, according to EN 196-1	18,00 ± 1,00N/mm <sup>2</sup>
Resistance to compression, according to EN 196-1, after	
• 48 hours	42,00 ± 3,00 N/mm <sup>2</sup>
• 7 days	70,00 ± 2,00 N/mm <sup>2</sup>
• 28 days	90,00 ± 1,00 N/mm <sup>2</sup>

#### PACKAGING

Paper sacks of 25 kg.

#### CONSUMPTION

About 18 kg/m<sup>2</sup> / cm thickness layer

## FIXATIV C57



Unit of measurement	Pieces/Pallet	Consumption	Color/other specifications
25 kg/sack 5 kg / bag	54 pcs/pallet 4 pcs/box	1,5-2 Kg/m <sup>2</sup> /mm -	Grey -



### FIXATIV C57

Cement-based, quick drying mortar for anchoring metallic structures.

#### FEATURES

Cement powder for repairs with high mechanical resistance, does not shrink, for indoor and outdoor use. It offers excellent workability, adhesion, resistance to freezing, strikes and humidity. Thanks to its hydraulic connections, special polymers, selected inerts and synthetic fibers, it does not crack.

#### AREA OF APPLICATION

FIXATIV C57 is suitable for fixations, anchoring, metallic structures, holes sealing, and generally in those places where high resistance and quick work is required.

#### MANNER OF APPLICATION

##### 1. Surface preparation:

The substrate should be clean and free of dust or rotten materials; it should be wetted well or be primed with the micromolecular stabilizer BETON CONTACT before its application.

##### 2. APPLICATION

Pour the cement powder into clean water, in a ratio of 25 kg powder in 5,5 l water and stir them with a low-rotation drill or with a concrete mixer, until you acquire a homogeneous mixture, which is suitable for any type of use. The mixture is workable for 10 minutes; it is applied with a trowel in cases of repairs, or with a pouring machine if the surfaces need a covering material with high mechanical resistance.

#### TECHNICAL DATA (IN 23°C AND 50% RH)

Form - Color	Cement powder-Grey
Toxic / flammable (per EN 88/379)	no
Specific weight of dry powder	1,47 ± 0,05 kg/l
Specific weight of wet powder	2,00 ± 0,05 kg/l
Maximum diameter of grain	1.5 mm
Water demand	5,5 lt water in 25 kg powder
Application temperature	From +5°C to +35°C
Thermal resistance	From -30°C to +80°C
Pot life in container	15 minutes

#### MECHANICAL RESISTANCES

Resistance to flexion after 28 days, according to EN 196-1	10,00 ± 1,00N/mm <sup>2</sup>
Resistance to compression, according to EN 196-1, after	
• 48 hours	32,00 ± 3,00 N/mm <sup>2</sup>
• 7 days	50,00 ± 2,00 N/mm <sup>2</sup>
• 28 days	70,00 ± 1,00 N/mm <sup>2</sup>

#### PACKAGING

Paper sacks of 25 kg and 5kg bag.

#### CONSUMPTION

About 18 kg/m<sup>2</sup> / cm thickness layer

#### SHELF LIFE - STORAGE

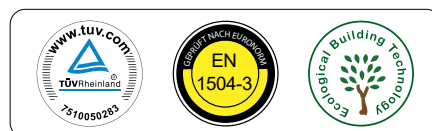
It is stored in well-closed packaging, in dry places and at temperatures higher than +10°C, for at least 12 months after manufacture date.

## 10.3 CEMENT-BASED PRODUCTS FOR CRACKS, PLANTING AND BONDING

### FLOW GROUT FIBREN



Unit of measurement	Pieces/Pallet	Consumption	Color/other specifications
25 kg/sack	54 pcs/pallet	1,5-2 Kg/m <sup>2</sup> /mm	Grey



#### FLOW GROUT FIBREN

Cement-based, quick drying mortar for repairs.

#### FEATURES

Cement powder for repairs with high mechanical resistance, does not contract, for indoor and outdoor use. It offers excellent workability, adhesion, resistance to freezing, strikes and humidity. Thanks to its hydraulic connections, special polymers, selected inerts and synthetic fibers, it does not crack.

#### AREA OF APPLICATION

FLOW GROUT FIBREN is suitable repairs in concrete structures and leveling layers, in environments where high resistance is required.

#### MANNER OF APPLICATION

##### 1. Surface preparation:

The substrate should be clean and free of dust or rotten materials; it should be wetted well or be primed with the micromolecular stabilizer BETON CONTACT before its application.

##### 2. APPLICATION

Pour the cement powder into clean water, in a ratio of 25 kg powder in 5,5 l water and stir them with a low-rotation drill or with a concrete mixer, until you acquire a homogeneous mixture, which is suitable for any type of use. The mixture is workable for 10 minutes; it is applied with a trowel in cases of repairs, or with a pouring machine if the surfaces need a covering material with high mechanical resistance.

#### TECHNICAL DATA (IN 23°C AND 50% RH)

Form - Color	Cement powder-Grey
Toxic / flammable (per EN 88/379)	No
Specific weight of dry powder	1,47 ± 0,05 kg/lt
Specific weight of wet powder	2,00 ± 0,05 kg/lt
Maximum diameter of grain	1.5 mm
Water demand	5,5 lt water to 25 kg powder
Application temperature	From +5°C to +35°C
Thermal resistance	From -30°C to +80°C
Pot life in container	15 minutes

#### MECHANICAL RESISTANCES

Resistance to flexion after 28 days, according to EN 196-1	18,00 ± 1,00N/mm <sup>2</sup>
Resistance to compression, according to EN 196-1, after	
• 48 hours	42,00 ± 3,00 N/mm <sup>2</sup>
• 7 days	70,00 ± 2,00 N/mm <sup>2</sup>
• 28 days	90,00 ± 1,00 N/mm <sup>2</sup>

#### PACKAGING

Paper sacks of 25 kg.

#### CONSUMPTION

About 18 kg/m<sup>2</sup> / cm thickness layer.

### ASPHALT REPAIR



Unit of measurement	Pieces/Pallet	Consumption	Color/other specifications
20 kg / bucket	36 pcs/pallet	250 ml/m <sup>2</sup> /mm	Black



#### ASPHALT REPAIR

Cold asphalt for road repair.

#### FEATURES

Product is ready to be applied; it is cold bitumen-based for repairs of small holes in streets or sidewalks. It is characterized by high flexibility, does not create cracking due to its swelling coefficient. It has excellent adhesive properties and is not damaged by car tires. The product has high resistance to weather conditions and over time. It is easily workable and does not have specific request regarding the preparation of the substrate. Also, the surface becomes trafficable immediately.

#### AREA OF APPLICATION

Suitable for rapid restoration of (holes, cracks etc.) asphalt or sidewalks. Ideal for local repairs on highways, roads, bridges, parking lots and yards, industries, schools, hospitals etc.

#### MANNER OF APPLICATION

The support where Asphalt Repair will be applied should be cleaned in advance from dust and petroleum, oils, varnishes, wax residues, and anti-adhesive materials. Cleaning of oils, varnishes, wax or anti-adhesive materials is done mechanically or manually. For holes over 10 cm, it is recommended to fill the holes with inerts, to compress really well and then apply the product. Product application is made 1-2 cm above the hole level and then it is compressed with a roller.



#### TECHNICAL DATA (IN 23°C AND 50% RH)

Chemical base	Bitumen asphalt
Specific weight of mixture	2,10±0,05 kg/lit
Color	Black
Application temperature	-40°C to +60°C

#### PACKAGING

Bucket of 20 kg.

#### CONSUMPTION

20-22 kg/m<sup>2</sup> for cm thickness

#### SHELF LIFE - STORAGE

It is stored in its closed packaging, in dry, low-moisture and shady places, for at least 18 months after manufacture date.

## 10.5 CEMENT AND GYPSUM BASE PRODUCT FOR FIXING

### ELEKTRIKER GIPS



Unit of measurement	Pieces/Pallet	Consumption	Color/other specifications
2.5 kg/sack	8 pcs/box	15 kg/m <sup>2</sup> / cm thickness	White



#### ELEKTRIKER GIPS

Gypsum-based adhesive, with rapid freezing for installing electrical boxes and pipes.

#### TECHNICAL FEATURES

Gypsum-based adhesive, with rapid freezing. Resistant to electrical shocks. Applicable in all types of absorbable supports and supports with high mineral content.

#### TECHNICAL FEATURES

Application temperature	From +5°C to +30°C
Mixing ratio	2 Electrical Gypsum: 1 water
Workability	8 minutes at a temperature of +23°C (increase of temperature will decrease workability time)
Hardening time	after 30 minutes
Installation of electrical boxes	after 2 hours
Color	Grey
Resistant to temperatures	From -20°C to +80°C)
Storage	12 months, in original packaging and dry place
Coverage	Depends on the application



### WHITE CEMENT



Unit of measurement	Pieces/Pallet	Color/other specifications
20 kg/sack	54 pcs/pallet	White



#### WHITE CEMENT

White cement with high physical and mechanical resistances.

#### DESCRIPTION

White cement with high physical and mechanical resistances, which is used for the production of concrete, mortar, different finishes, with or without pigment. It is a substance with great activity to water due to its porosity and granulometrisë below 90 microns.

#### FIELDS OF APPLICATION

White cement may be used for the production of all types of concrete requiring white color or any other color. Also, the product can be used to produce traditional mortar, as well as the finishes. To produce quality mortar, this recipe is recommended: 20kg white cement with 150kg washed sand without clay, 0-1.4 + 35 liters water.

#### TECHNICAL DATA

Form	Powder
Color	White
Specific Surface	450 m <sup>2</sup> /Kg
Curing time	240 minutes



## 10.5 CEMENT AND GYPSUM BASE PRODUCT FOR FIXING

### FAST CEMENT



Unit of measurement	Pieces/Pallet	Consumption	Color/other specifications
5 kg/sack	4 pcs/box	18 kg/m <sup>2</sup> / cm thickness	Grey



#### FAST CEMENT

Special cement with quick drying

#### FEATURES

Fast Cement is cement with quick drying, which hardens as soon as it gets into contact with water.

#### AREA OF APPLICATION

Fast Cement is used for quick repairs, fixing, anchoring, plastering of concrete or plaster damages etc. Generally, it is used everywhere high mechanical resistance even in the early stages is required.

#### METHOD OF USE

##### 1. Preparation of the surface

The substrate must be free from dust and rotten materials; it should be thoroughly wetted or primed with the micromolar stabilizer BETON CONTACT before the application of the product.

##### 2. APPLICATION

Pour cement powder into clean water, in the ratio of 25 kg powder in 5.5 l of water and mix with a low- speed drill or a concrete mixer until a homogenous mixture is created, which is suitable for any use. The mixture will remain workable for 10 minutes and is applied with trowel for repairs or with a blasting machine if the surface needs a covering material with high mechanical resistance.

#### TECHNICAL DATA (IN 23°C AND 50% RH)

Form - Color	cement powder- Grey
Toxic / flammable (per EN 88/379)	no
Specific weight of dry powder	1,47 ± 0,05 kg/lt
Specific weight of wet powder	2,00 ± 0,05 kg/lt
Water demand	5,5 lt water to 25 kg powder
Application temperature	From +5°C to +35°C
Thermal resistance	From -30°C to +80°C
Pot life in container	5 minutes

#### MECHANICAL RESISTANCES

Resistance to flexion after 28 days, according to EN 196-1	10,00 ± 1,00N/mm <sup>2</sup>
Resistance to compression, according to EN 196-1, after	
• 48 hours	32,00 ± 3,00 N/mm <sup>2</sup>
• 7 days	50,00 ± 2,00 N/mm <sup>2</sup>
• 28 days	70,00 ± 1,00 N/mm <sup>2</sup>

#### PACKAGING

Plastic bags of 5 kg.

#### CONSUMPTION

About 18 kg/m<sup>2</sup> / cm thickness layer





## **11. SUPPLEMENTARY PRODUCTS**

## SILICONES

### 11.1 Filling Silicone



#### Silicone D-212

Acrylic silicone for general use, with adhesive and insulation properties

Unit of measurement	pcs/pallet	Color/other specifications
310 ml	24 pcs/box	White

### 11.2 Universal Silicone



#### Silicone D-1500

Acetic silicone with adhesive properties on building materials, impermeable by water

Unit of measurement	pcs/pallet	Color/other specifications
280 ml	12 pcs/box	Transparent
280 ml	-	White

### 11.3 Anti-Mold Silicone



#### Silicone D-433

Mono-component, anti-mold, silicone-based adhesive, for very humid environments

Unit of measurement	pcs/pallet	Color/other specifications
280 ml	12 pcs/box	Transparent
280 ml		White

### 11.4 Neutral Silicone



#### Silicone D-601

Neutral silicone, with adhesive properties on building and metallic materials, water resistant.

Unit of measurement	pcs/pallet	Color/other specifications
280 ml	12 pcs/box	Transparent

### 11.5 Neutral Anti-Mold Silicone



#### Silicone D-707 ULTRACOLOR

Neutral silicone, with adhesion properties on metallic and building materials, water resistant

Unit of measurement	pcs/pallet	Color/other specifications
280 ml	12 pcs/box	Transparent

### 11.6 Acrylic Silicone



#### Silicone D-700 SILWOOD

Neutral silicone, with adhesion properties on metallic and building materials, water resistant

Unit of measurement	pcs/pallet	Color/other specifications
280 ml	12 pcs/box	Transparent

### 11.7 Silicone for metal sealing



#### FERROSEAL

Silicone for sealing and adhering metals

Unit of measurement	pcs/pallet	Color/other specifications
280 ml	12 pcs/box	Grey

### 11.8 Bituminous silicone



#### BLACK SEAL Z-70

Neutral adhesive with adhesion properties on building and metal materials, water resistant

Unit of measurement	pcs/pallet	Color/other specifications
280 ml	12 pcs/box	Black

### 11.9 Alkoxy base silicone



#### FIRE SEAL F-S2

Neutral adhesive with adhesion properties on building and metal materials, water resistant.

Unit of measurement	pcs/pallet	Color/other specifications
280 ml	12 pcs/box	Grey

### 11.10 Two component anchor adhesive



#### ANCHOR ADESIVE PS1

Neutral adhesive with adhesion properties on building and metal materials, water resistant.

Unit of measurement	pcs/pallet	Color/other specifications
300 ml	12 pcs/box	Grey

### 11.11 Polyurethane base silicone



#### FLEX PU 40

Neutral adhesive with adhesion properties on building and metal materials, water resistant.

Unit of measurement	pcs/pallet	Color/other specifications
600 ml	12 pcs/box	Grey

### 11.11 Polyurethane base silicone



#### FLEX PU 40 PLUS

Neutral adhesive with adhesion properties on building and metal materials, water resistant.

Unit of measurement	pcs/pallet	Color/other specifications
600 ml	12 pcs/box	Grey

## 11.12 Polyurethane foams



### POLYURETHANE FOAM D-22

Polyurethane insulation foam with excellent qualities for acoustic and thermal insulation.

Unit of measurement	pcs/pallet
750 ml	12 pcs/box



### POLYURETHANE FOAM D-22 PROFESIONAL

Polyurethane insulation foam with excellent qualities for acoustic and thermal insulation, for professional use.

Unit of measurement	pcs/pallet
750 ml	12 pcs/box



### DW CONEXION FOAM 033

Polyurethane-based adhesive foam, free of blowing properties, that is applied through a pistol for the adhesion of thermal insulation panels.

Unit of measurement	pcs/pallet
750 ml	12 pcs/box



### FOAM CLEANER

Material to clean the work tools and the pistol for the application of polyurethane- based foam.

Unit of measurement	pcs/pallet
500 ml	12 pcs/box

## 11.13 Polypropylene fibers



### POLY FIBER 0.6mm

Mono-filament polypropylene fibers for the reinforcement of refinishes and mortars

Unit of measurement	pcs/pallet	Color/other specifications
600 gr/bag	8 pcs/box	0.6 mm



### POLY FIBER 1.2mm

Mono-filament polypropylene fibers for the reinforcement of concretes and mortars

Unit of measurement	pcs/pallet	Color/other specifications
600 gr/bag	8 pcs/box	1.2 mm

## 11.14 Pigments for concretes and refinishes



### COLORCEM Ocher

Dyer for concrete and refinishes. It is suitable to dye the mortar of roof tiles or to realize colored concreting, etc.

Unit of measurement	pcs/pallet	Color/other specifications
0.9 kg/plastic can	8 pcs/box	Ocher



### COLORCEM Yellow

Dyer for concrete and refinishes. It is suitable to color roof tile mortar or to realize colored concreting, etc.

Unit of measurement	pcs/pallet	Color/other specifications
2 kg/plastic can	8 pcs/box	Yellow



### COLORCEM Red

Dyer for concrete and refinishes. It is suitable to color roof tile mortar or to realize colored concreting, etc.

Unit of measurement	pcs/pallet	Color/other specifications
2 kg/plastic can	8 pcs/box	Red



### COLORCEM Brown

Dyer for concrete and refinishes. It is suitable to color roof tile mortar or to realize colored concreting, etc.

Unit of measurement	pcs/pallet	Color/other specifications
1.5 kg/plastic can	8 pcs/box	Brown



### COLORCEM Black

Dyer for concrete and refinishes. It is suitable to color roof tile mortar or to realize colored concreting, etc.

Unit of measurement	pcs/pallet	Color/other specifications
1.5 kg/plastic can	8 pcs/box	Black



### COLORCEM Blue

Dyer for concrete and refinishes. It is suitable to color roof tile mortar or to realize colored concreting, etc.

Unit of measurement	pcs/pallet	Color/other specifications
1 kg/plastic can	8 pcs/box	Blue



### COLORCEM Green

Dyer for concrete and refinishes. It is suitable to color roof tile mortar or to realize colored concreting, etc.

Unit of measurement	pcs/pallet	Color/other specifications
1.3 kg/plastic can	8 pcs/box	Green

## MESHERS, WALL ANCHORS, ANGLE BEADS AND GUTTERS

### 11.15 MESHERS



#### Mesh DF 90 5\*5

Fiberglass mesh to strengthen the facades that are going to be repaired or for those that are applied in the thermal insulating

Unit of measurement	pcs/pallet	Color/other specifications
50m/roller	4 pcs/box	90 gr

#### Mesh DF 110 5\*5

Fiberglass mesh to strengthen the facades that are going to be repaired or for those that are applied in the thermal insulating

Unit of measurement	pcs/pallet	Color/other specifications
50m/roller	4 pcs/box	110 gr

#### Mesh DF 125 5\*5

Fiberglass mesh to strengthen the facades that are going to be repaired or for those that are applied in the thermal insulating

Unit of measurement	pcs/pallet	Color/other specifications
50m/roller	4 pcs/box	125 gr

#### Mesh DF 145 5\*5

Fiberglass mesh to strengthen the facades that are going to be repaired or for those that are applied in the thermal insulating

Unit of measurement	pcs/pallet	Color/other specifications
50m/roller	4pcs/box	145 gr

#### Mesh DF 160 5\*5

Fiberglass mesh to strengthen the facades that are going to be repaired or for those that are applied in the thermal insulating

Unit of measurement	pcs/pallet	Color/other specifications
50m/roller	4 pcs/box	160 gr

#### Mesh DF 110 10\*10

Fiberglass mesh to strengthen facades that will be repaired or the mortar plasters of ceilings.

Unit of measurement	pcs/pallet	Color/other specifications
50m/roller	4p cs/box	110 gr

### 11.16 WALL ANCHORS

#### METAL WALL ANCHORS

Metal wall anchors for fixing polystyrene panels, glass wool or stone wool with metal elements of internal fixation and external plastic layers.



Name	Unit of measurement	pcs/pallet	Color/other specifications
KI-100M Ø 10 with steel spike	200 pcs/box	48 box/pallet	10 cm
KI-120M Ø 12 with steel spike			12 cm
KI-140M Ø 14 with steel spike			14 cm
KI-160M Ø 16 with steel spike			16 cm

#### PLASTIC WALL ANCHORS

Plastic wall anchors for fixing polystyrene panels, glass wool or stone wool with metal elements of internal fixation and external plastic layers.

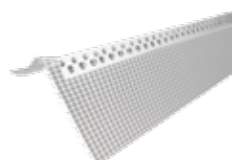


Name	Unit of measurement	pcs/pallet	Color/other specifications
KI-100 with plastic spike	200 pcs/box	48 box/pallet	10 cm
KI-120 with plastic spike			12 cm
KI-140 with plastic spike			14 cm
KI-160 with plastic spike			16 cm

### 11.17 ANGLES BEADS, GUTTERS

#### ANGLE BEAD DF-K 150

Angle bead for corners with mesh 145 gr 10X15X250 cm, resistant to alkali.



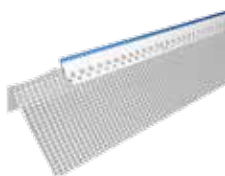
Unit of measurement	pcs/pallet	Color/other specifications
50 pcs/box	40 box/pallet	2.5 ml



### Angle bead F100

Angle bead for corners with a mesh of 110 gr 10X10X250 cm

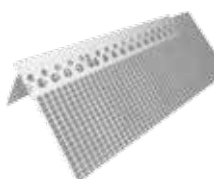
Unit of measurement	pcs/pallet	Color/other specifications
50 pcs/box	40 box/pallet	2.5 ml



### Gutter VLT DF-S 150

Gutters for balconies, with a mesh of 145 gr 10X15X250 cm, resistant to alkali.

Unit of measurement	pcs/pallet	Color/other specifications
20 pcs/box	40 box/pallet	2.5 ml



### Gutter S100

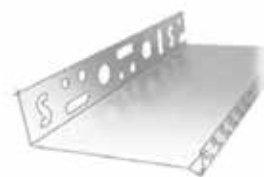
Gutters for balconies with a mesh of 110 gr 10X10X250 cm

Unit of measurement	pcs/pallet	Color/other specifications
20 pcs/box	40 box/pallet	2.5 ml

## 11.18 Aluminum elements to start the thermal isolation system

### POL-START LOS 53

A starter profile for thermal insulation system with PVC element, reinforced with a mesh of 145 gr, resistant to alkali and zinc profile. 0,5 length 2,0m.



Unit of measurement	pcs/pallet	Color/other specifications
10 pcs/box	40 box/pallet	2.0 ml/53mm

### POL-START LOS 83

A starter profile for thermal insulation system with PVC element, reinforced with a mesh of 145 gr, resistant to alkali and zinc profile. 0,5 length 2,0m.

Unit of measurement	pcs/pallet	Color/other specifications
10 pcs/box	40 box/pallet	2.0 ml/83mm

### POL-START LOS 103

A starter profile for thermal insulation system with PVC element, reinforced with a mesh of 145 gr, resistant to alkali and zinc profile. 0,5 length 2,0m.



Unit of measurement	pcs/pallet	Color/other specifications
10 pcs/box	40 box/pallet	2.0 ml/103mm

### POL-START PVC

PVC element, reinforced with a mesh of 145 gr, resistant to alkali and POL-START LOS profiles.

Unit of measurement	pcs/pallet	Color/other specifications
30 pcs/box	40 box/pallet	2.0 ml

## 11.19 Cleaner for tiles



### FUGA CLEAN

is a liquid, acid-based cleaner, which is used to clean residues of concrete, various mortars as well as salts from tiles. It serves for cleaning the premises where drinking water and food are stored, since it does not leave residues.

Unit of measurement	pcs/pallet	Consumption	Color/other specifications
1 kg/plastic can	10 pcs/box	-	Transparent
5 kg/plastic can	4 pcs/box	-	-
10 kg/plastic can	60 pcs/pallet	-	-







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