DSF 363 FIBERELASTIC

ELASTIC, FIBER-REINFORCED, BRUSHABLE, WATERPROOFING 1-COMPONENT SLURRY

ACCORDING TO EN 1504-2

DESCRIPTION

DSF 363 FIBERELASTIC is an elastic, fiber-reinforced, brushable, waterproofing 1-component slurry, enhanced with special polymeric components, which forms an absolutely waterproof, elastic and flexible membrane of high resistance. It protects building constructions from ground humidity, surface or rising damp and water under pressure. Resistant to frost, with very good water vapour permeability, the product does not corrode the reinforcement of the concrete. Moreover, it can bridge thin cracks and offers perfect adhesion to a number of substrates. Suitable for fresh water tanks as well as for application on surfaces in contact with food, according to the provisions of W-347, EPA 330.5 and EPA 110.2.

APPLICATION FIELDS

DSF 363 FIBERELASTIC is suitable for waterproofing:

- Surfaces from concrete, bricks, aerated (porous) concrete, cement blocks, gypsum boards, plaster, mosaic, wood, metal, etc.
- Walls of surface constructions.
- Walls of basements and foundations.
- Basements, inside and outside, against humidity, water or water under pressure.

It is also recommended for applications requiring elasticity of the waterproofing zone as well as for waterproofing surfaces that are to be covered with tiles or insulating materials, such as:

- Balconies and flat roofs,
- Inverted roofs
- Underground water tanks,
- Damp spaces (bathrooms, kitchens),
- Floors, window-boxes,
- Shafts, tunnels, etc.

It protects plaster and concrete from cracking due to shrinkage during cement hardening as well as from humidity and corrosive agents of the atmosphere.

ADVANTAGES – CHARACTERISTICS

- Bridges cracks up to 0.2 mm wide
- Produced with quartz sand
- Suitable for negative and positive pressures
- Resistant to humidity and vapours
- Protects concrete from carburization
- Adhesion to damp surfaces without previous priming
- Perfect waterproofing
- Resistant to ageing
- Resistant to oils and solvents
- Easy and economical application
- Non-flammable

SUBSTRATE PREPARATION

The surface should be clean and free from lose foreign materials, salts, oils and other impurities. Remove protrusions and burr, polyurethane or other soft materials. Cut any piece of iron protruding by 1.5-2.0 cm. Seal all holes and cracks with WRM 520 or WRM 500 fast setting repairing mortar (depending on the case).

During application be careful not to spill water on the substrate. Water leaks should be sealed with WRM 500. Drench the surface with water until satiation and remove the excess water. Along the joint lines between walls and floors, the corners should be rounded and "grooves" should be formed with the use of WRM 518.

APPLICATION

The application surface should be firm, free from any dust, grease and other impurities and should be well drenched, without any standing water.

For application with brush: slowly add the content of the 18kg bag to a clean container with 5.4lt of water while stirring. Apply crosswise 2-4 layers. Apply every next layer after the previous has dried (not earlier than 2 hours). Maximum layer thickness should be 1mm.

For application with trowel: the amount of mixing water is 4.1-4.5lt. Apply crosswise 2 layers. Apply every next layer after the previous has dried (not earlier than 2 hours). Maximum layer thickness should be 2mm. The tiles should be glued with elastic adhesives C2TE S1 or S2 type, such as VKW 126 FLEX, VKW 128 SUPER FLEX, VKW 132 and VKW 129 ULTRAFLEX.

APPLICATION RATE

Application rate is 1.1-1.2 kg/m^2 per layer 1mm thick.

Condition	Minimum Application Rate	Minimum Thickness
Humidity	1.5-2.0 kg/m^2	approx. 1.5mm
Water without pressure	2.2-2.5 kg/m^2	approx. 2.0 mm
Water under pressure	3.5-4.0 kg/m^2	approx. 3.0-3.5 mm

PACKAGING – STORAGE

The product is packed in 18kg paper bags and is preserved in sealed packages for at least 12 months after production date, in places protected against humidity, frost and intense radiation.

TOOLS

An electric mixer with the appropriate blades is required for the manufacture of the product. Apply with hard brush or spatula.

CLEANING OF TOOLS AND MACHINES

Wash with plenty of water immediately after use.

TECHNICAL ADVICE

- In cases of cracked substrates or in applications in which the product remains uncovered, the use of a 70g/m^2 or a 160 g/m^2 mesh all over the surface is recommended. The meshes should be installed during the first application of DSF 363 FIBERELASTIC while the product is still fluid and a smooth metal spatula should be used for its incorporation. After the first layer at least another two should follow.
- Along the joints between floors and walls, when no groove will be constructed, or between walls, the use of joint sealing tape F12/7 or KF 12/7 is recommended. The tape shall be used during the first application of DSF 363 FIBERELASTIC while the product is still fluid and a smooth metal spatula should be used for the incorporation of the tape.

NOT RECOMMENDED

The product should not be applied:

- Under frost or extremely hot conditions.
- On surfaces subject to transportation and vibrations.
- Under rain conditions.
- In case of water leaks.

In addition, the product should not directly contact water containing chlorine, such as in swimming pools. In these cases, the product should be covered with ceramic tiles or a special paint.

PRECAUTIONS

The product DSF 363 FIBERELASTIC contains cement and reacts with water to produce alkaline solution. Therefore, protect your eyes and skin. In case of contact, wash with plenty of water. In case of eye contact, immediately ask medical advice. Read the information on the label and the Product Technical Sheet before use. Wear the appropriate protective clothes and gloves. The MSDS of the product is available upon request to professionals.

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TYPE ACCORDING TO THE EUROPEAN STANDARD EN 1504-2

TECHNICAL CHARACTERISTICS		UNITS	STANDARD	VALUE
Form				dry powder
Colour				grey
Temperature resistance		(^{o}C)		-30 to +90
Maximum application thickness per layer		(mm)		1
Maximum thickness of total application		(mm)		3-4
Adhesive strength at normal conditions		(N/mm^2)	EN 14981	≥0.5
Adhesive strength after immersion in water		(N/mm^2)	EN 14981	≥0.5
Adhesive strength after heat ageing		(N/mm^2)	EN 14981	≥0.5
Tensile adhesion after freeze-thaw cycles		(N/mm^2)	EN 14981	≥0.5
Watertightness (at 150kPa)			EN 14981/ EN 206	no water leaks
Adhesion		(N/mm^2)	EN 1542	≥1.0
Permeability CO_2 (Sd)		(m)	EN 1062-6	>50
Water absorption (w<0,1)		(kg/m^2·h$^{0.5}$)	EN 1062-3	<0.1
Water vapour diffusion Sd		(m)	EN ISO 7783-2	<5 (Class I)
Pot life		(hours)		approx. 1
Waiting period (at 20^{0}C & RH 50%) before the product is covered with (*)	Emulsion paints	(days)		2
	Cement-based plasters			1-2
	Ceramic tiles on vertical surfaces			1-2
	Ceramic tiles on horizontal surfaces			1-2
	Backfilling materials			3
Waiting time (at 20^{0}C & RH 50%) before contact with (*)	water (e.g. humidity, rain)	(days)		2
	water under hydrostatic pressure			7
	potable water			15

(*) Waiting periods have been measured at atmospheric temperatures of 20^{0}C and Relative Humidity 50% . Any temperature reduction and/or relative humidity increase will lead to increased waiting time.

Note: *The measurements were taken in laboratory environment under a temperature of +20^{0}C, Relative Humidity 50 % and without ventilation. They may vary depending on the conditions prevailing at the worksite, such as temperature, humidity, ventilation and absorbability of the substrate.*