

HIDROMAL FLEKS 1K

One component, elastic waterproofing with fibers based on cement and polymer In compliance with EN 1504-2/2.2 (C); 8.2 (C) and EN 14891

FIELD OF APPLICATION

Elastic waterproofing for constructions exposed to positive and negative hydrostatic pressure, for indoor and outdoor waterproofing of underground concrete structures, wall and floor waterproofing in basements, pools, technical and drinking water reservoirs, ducts, balconies, flat roofs terraces, toilettes, baths, kitchens and similar. Also it is used for waterproofing of constructions, where it can remain unprotected from atmospheric exposure for longer period of time.

PROPERTIES

- simple preparation and application;
- concrete protection of water and moisture penetration;
- resistant to positive and negative hydrostatic pressure;
- ceramic tiles can be applied directly on the waterproofing, using tile adhesive;
- suitable for drinking water reservoirs;
- application on moisturized substrate:
- excellent adhesion to the substrate;
- · bridges the micro-cracks;
- vapor-permeable;
- resistant to bacteria;
- UV stable;
- resistant to ice;
- does not contain chlorides.

TECHNICAL FEATURES

PROPERTY	METHOD	DECLARED VALUE
Appearance	-	white powder
Mixing ratio - water/Hidromal Fleks 1K - W/M	-	for application using brush 0,40-0,45kg for 1kg Hidromal Fleks 1K for application using trowel 0,30kg for 1kg Hidromal Fleks 1K
Bulk density of the product prepared for application	MKC EN 1015-6	1,5-1,6 g/cm³
Consistency of fresh mix	MKC EN 1015-3	240 <u>+</u> 20mm
Adhesion to the substrate (Bond strength)	EN 1542	≥0,8 MPa
Vapor-permeability	EN ISO 7783-1	Sd<5m - class I
Capillary absorption and water permeability	EN 1602-3	w<0,1kg/m² h½
Adhesion to the substrate exposed to temperatures (freezing and thawing)	EN 13687-3	≥ 0,8MPa
Elongation at brake, at 20°C	-	5%
Waterproofing	EN 14891	No penetration
Crack bridging ability under standard condition	EN 14891	≥0,75 mm

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Reaction to fire	EN 13501	F
Temperature for application		5°C-35°C
Workability time		3-4h
Dry at 20°C		
Forming dry layer of the surface		after 6h
Dry		after 24h
Apply next layer at 20°C		after 12h
Use		after 7 days
Use in touch with drinking water		after 15 days

METHOD FOR CONSTRUCTION

SUBSTRATE PREPARATION

Substrate for waterproofing of Hidromal Fleks 1K is concrete, cement mortar, gypsum cardboard panels, stone, ceramic tiles (without glaze) and bricks. The substrate should be sound, clean, solid and stable, without cracks, labile parts, existing coatings, grease or dust. The substrates with joints (bricks or ceramic tiles) should have entirely fulfilled elements, with firm joints without cracks. In case of substrate with ceramic tiles, the glaze of the tiles must be removed using scraper.

For executing waterproofing on the construction joints (horizontal and vertical, floor and wall), it is highly recommended to make curved element (holker) using Reparatur Malter F or to place ADING self-adhesive tape to bridge the joints, in case of constructive movements.

According to the details and the potentials of the building, joints at concreting, penetrations of installations through the construction, penetrations of the formwork spacers and similar should be appropriate treated with Reparatur malter F, ADING self-adhesive tape or with elastic acrylate sealant Adingakril.

For reconstructions, remove all labile parts of the substrate and clean it from dirt and dust. When the construction has any segregation or cracks, it is recommended to repair them with Eksmal, Reparatur Malter F, ADING self-adhesive tape or elastic sealant Adingakril, according to the detail and the potentials of the building.

Before the application of Hidromal Fleks 1K it is necessary to wet the surface with water.

APPLICATION

Prepare the material with water (400-450g/kg material) and mix until it homogenize using mechanical mixer with medium speed (300-400 revolutions per minute). Leave the mixture 10min calm to reach the required consistency. Mix it again right before the application.

Apply it with brush in two or three layers. The application of the waterproofing on flat and smooth surfaces can be executed with roller. Apply the next layer on completely dry layer, in normal direction of 90° to the previous. According to the temperature, the period of time between two layers should be between 6-24h.

In case of mechanical damages of the waterproofing, the correction is simple, by overpainting the area.

Treated surfaces are intended to be protected of rain, wind, frost and freezing, at least 48h after the application. The temperature is intended to be between 10-35°C.

For protection of the surfaces waterproofed with Hidromal Fleks 1K, it is necessary to mechanically protect them with expanded polystyrene or cement mortar.

CONSUMPTION

1,00-1,50 kg/m² (two to three layers)

CLEANING

Tools and equipment should be cleaned with water, immediately after use.

PACKING

paper bag: 4kg and 18kg

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STORAGE

In original, closed packaging, in dry spaces, at temperature between 10-30°C, protected from direct exposure to sunlight. Shelf life: 12 months.

CE MARK



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GFAE001/8

EN 1504-2:2004

HIDROMAL FLEKS 1K

Elastic fiber-reinforced waterproofing coating, for surface protection for concrete and moisture control

Permeability to water vapour Class I, $S_D < 5$ m Capillary absorption and w < 0.1 kg/m²·h^{0,5}

permeability to water

Adhesion strength by ≥ 0,8 N/mm²

pull-off test

Tel.: +389/02 2034 840; Fax: +389/02 2034 850; e-mail: ading@ading.com.mk

Adhesion after thermal Adhesion after 20 freeze-thaw

compatibility: cycles

Thermal cycling without de- ≥ 0,8 N/mm²

icing salt impact

Reaction to fire Class F

Dangerous substances No performance determined

<u>Health hazards:</u> Avoid contact of the product with skin and eyes, such as direct inhalation. In case of accidental contact of the product with skin, immediately remove it using soup and water. In case it splashes into eyes, immediately rinse them using plenty of water and seek for medical help.

Fire: Hidromal Fleks 1K is not flammable.

<u>Cleaning and storage</u>: Clean loose residues of Hidromal Fleks 1K with water. Old and used packaging should be disposed in accordance with the local rules and regulations for that type of waste. It is recommended to adjust the method of application and necessary quantities according to the potential of the building, as well as mandatory use of appropriate equipment.

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