

# HIDROMAL ELASTIFIKATOR

*Two component, semi-elastic waterproofing based on cement and polymer*

## FIELD OF APPLICATION

Waterproofing for constructions exposed to positive and negative hydrostatic pressure, for indoor and outdoor waterproofing of pools, water treatment plants, wall and floor surfaces in basements, technical reservoirs, ducts, concrete pipes, manholes, balconies, toilettes, kitchens, underground concrete elements and other.

## PROPERTIES

- two component product that is simple to prepare
- 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;
- application on moisturized substrate;
- excellent adhesion to the substrate;
- bacteriologically resistant;
- resistant to ice;
- doesn't contain chlorides;
- economic;
- simple application;
- UV stable;
- without leakage when applied on vertical surfaces;

## TECHNICAL FEATURES

PROPERTY	METHOD	DECLARED VALUE
Appearance		
A component	-	grey powder
B component	-	white liquid
Mixing ratio	-	A:B =3:1
Bulk density of the product prepared for application	MKC EN 1015-6	1,5-1,8 g/cm <sup>3</sup>
Adhesion to the substrate (Bond strength)	EN 1542	≥0,8 MPa
Adhesion to the substrate after exposure to thermal cycles (freeze and thaw)	EN 13687-3	≥0,8 MPa
Vapor-permeability	EN ISO 7783-1	Sd<5m - class I
Capillary absorption and water permeability	EN 1602-3	w<0,1kg/m <sup>2</sup> h <sup>0.5</sup>
Workability	EN 1015-3	90min
Apply next layer at 20°C		6-12h
Temperature for application		5°C-35°C
Dry at 20°C		
Forming dry layer of the surface		2-3h
Dry		24h
Application of ceramic tiles on 20°C		after 24h
Use		after 7 days

WATERPROOFING

## METHOD FOR CONSTRUCTION

### SUBSTRATE PREPARATION

Substrate for application of Elastifikator is concrete, cement mortar, stone or gypsum cardboard panels, ceramic tiles (without glaze) and brick. 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 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, epoxy putty, or elastic sealant Adingakril, according to the detail and the potentials of the building.

Before the application of Hidromal Elastifikator it is necessary to wet the surface with water.

### APPLICATION

A : B : water = 3 : 1 : 0.2 – for first layer

A : B = 3 : 1 – for second layer without water

Mix the material with a slow mixer until completely uniform without lumps.

Apply it with brush in three layers. The application of next layer on completely dry layer. According to the temperature, the period of time between two layers should be between 6-24h.

in case of high temperatures it is necessary to maintain the moisture of the surfaces. If the treated surface is exposed to direct sunlight, it must be covered with geotextile. 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 5-35°C. In case of mechanical damage of the waterproofing, simple correction is possible by removing the damaged parts and re-coating the surface. Surfaces waterproofed with Hidromal Elastifikator, it is necessary to protect from mechanical damage with appropriate protection.

## CONSUMPTION

1,4-2,5 kg/m<sup>2</sup> (two or three layers with brush)

## CLEANING

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

## PACKING

28kg set:

A component- 21kg

B component- 7kg

40kg set:


A component- 30kg

B component- 10kg

## STORAGE

In original, closed packaging, in dry spaces, at temperature between 5-35°C, protected from direct exposure to sunlight. Shelf life: 12 months.

## CE MARK

 2032	
ADING AD Skopje, Novoselski pat (ul 1409) br.11 1060 Skopje, North Macedonia 23 GFAA004/2 EN 1504-2:2004 <b>HIDROMAL ELASTIFIKATOR</b> Semi-elastic waterproofing coating, for surface protection for concrete and moisture control	
Permeability to water vapour	<b>Class I, <math>S_D &lt; 5 \text{ m}</math></b>
Capillary absorption and permeability to water	<b><math>w &lt; 0,1 \text{ kg/m}^2 \cdot \text{h}^{0,5}</math></b>
Adhesion strength by pull-off test	<b><math>\geq 0,8 \text{ N/mm}^2</math></b>
Reaction to fire	<b>Class F</b>
Dangerous substances	<b>No performance determined</b>

**Health hazards:** 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 soap and water. In case it splashes into eyes, immediately rinse them using plenty of water and seek for medical help.

**Fire:** Hidromal Elastifikator is not flammable.

**Cleaning and storage:** Clean loose residues of Hidromal Elastifikator 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. Additional information are provided in the Safety Data Sheet of the product.

WATERPROOFING