

HIDROMAL FLEX - 1

Two-component cement-based coating for performing elastic waterproofing

Field of application:

It is used for waterproofing of structures subjected to positive and negative hydrostatic pressure: pools and ponds, settling tanks, water treatment plants, wall and floor surfaces of cellars and basements, reservoirs, canals, concrete pipes, manholes, balconies, sanitary facilities, kitchens, laundries, embedded concrete members and the like.

Properties:

- Two-component compound;
- Resistant to positive and negative hydrostatic pressure;
- Bridges micro-cracks;
- Elastic;
- Economical;
- Non-toxical;
- Does not contain chlorides;
- Enables direct gluing of ceramic tiles with building adhesive;
- Bacteriologically resistant;
- Simple for application;
- Excellent adhesion to the substrate;
- Possible application upon moist substrate;

Technical features:

Appearance:	
Component A:	grey powder
Component B:	white liquid
Mixing ratio:	A:B = 1:1
Bulk density:	1,70 - 1,80 g/cm ³
Resistance to positive water pressure: (DIN 1048)	6 atm.
Resistance to negative water pressure: (DIN 1048)	2 atm.
Open workability time for work at 20°C:	2-3 hours
Hardening time at 20°C:	5 hours
Application of subsequent coating at 20°C:	6-24 hours
Bond strength:	>0,7 MPa
Elongation at break:	38 - 43 %

Substrate preparation:

Hidromal Flex-1 is applied upon concrete, cement mortar, or gypsum cardboard panels. The substrate should be sound, clean, cleaned of dust and grease without segregated spots and cracks. If the substrate has got segregated spots or cracks, they should be rehabilitated by using Reparatur (Repair) mortar or else epoxy sealant Adingpoks-K. Cleaning the substrate with water under pressure is the most appropriate method. If there is flowing water on the substrate which is being insulated, it should be stopped by using Accelerator-C or else some other appropriate material. The substrate moisture does not prevent the application of the system.

Application:

The compound to be used is being prepared in the following manner: powdery component A is being added to the liquid component B along with continuous mixing, manually or by means of a mechanical mixer having 300-500 revolutions/minute). Mixing is performed until complete homogenization of the mixture. For the first layer it is possible to add up to 10% water into the mixture.

The application of the material is performed with brushes (120 mm-200 mm wide) in two or three layers. Each subsequent layer is applied upon a previously dried out layer. The time gap between application of the layers amounts to 6-24 hours depending on the temperature. The overall thickness of all three layers is approximately 1,0 to 2,0 mm.

Treated surfaces should be protected against rainfall, strong draught and frost during a period of minimum 48 hours. The temperature at the application of the waterproofing should be 10°C.

Consumption:

For two layers: 1,2 - 1,4 kg/m²
For three layers: 1,8 - 2,2 kg/m²

Cleaning:

The tools and equipment are cleaned with water, immediately after use.

Packing:

Component A in natron bags of 5 and 30 kg.
Component B in plasticcans of 5 and 10 kg.

Storage:

In original closed packing. In dry premises, at a temperature from 5°C to 30°C, protected against direct exposure to sun. Shelf life 12 months.

Health hazard:

It is necessary to avoid contact of the product with the skin (use protective gloves). The material is not toxic, however in an accidental contact, in case some skin areas have been contaminated, those spots should immediately be washed with water and soap. If the material has been splashed into eyes, they should immediately be rinsed with a lot of water and medical assistance should be asked for.

Fire:

Both components of Hidromal Flex-1 are non-flammable.

Cleaning and discarding:

Loose residues of Hidromal Flex-1 are cleaned with water. The old and used packing should be discarded in accordance with the local relevant regulations for that kind of waste.

We recommend for the application and the required quantities to be adjusted to the conditions of work as well as obligatory use of appropriate equipment.