

ADINGPOKS M

Two-component, low viscosity, epoxy pre-coat for wet concrete substrates and reactive mortar binder

FIELD OF APPLICATION

As a primer in all epoxy systems. For impregnation and improvement of the physical mechanical properties of concrete surfaces or cement mortar surfaces. For protection of concrete surfaces exposed to mechanical influences and chemical aggression. When mixing with quartz sand, epoxy mortar with high physicalmechanical characteristics can be obtained, used for structural reparation of damages of concrete structures.

Adingpoks M is used for the waterproofing system for bridge constructions together with quartz sand and bitumen strip waterproofing. The epoxy coating Adingpoks M withstands the thermal changes during the application of the bitumen strip waterproofing as well as the application of the asphalt.

PROPERTIES

- Transparent, low-viscosity two-component epoxy resin;
- High resistance to wearing (abrasion);
- High adhesion to dry and wet concrete substrate;
- Waterproof and water resistant;
- Good resistance to mild acids, salt solutions and mineral oils;
- Resistant to oil and oil derivates.

TECHNICAL FEATURES

PROPERTY	METHOD	DECLARED VALUE
Appearance		transparent viscous liquid
Mixing ratio		A:B = 1,7:1
Density	EN ISO 2811-1	(A+B) 1,05-1,09 g/cm ³
Pot-life at 20-25°C	EN ISO 9514	30-40 min
Adhesion pull-off test	EN 1542	≥3 N/mm ²

METHOD STATEMENT:

SUBSTRATE PREPARATION

The concrete substrate should be sound, clean, and free of grease and dust, with a compressive strength of minimum 25 MPa.

For newly made concrete substrates, ADINGPOKS M is recommended to be applied at least 7 days after the finished concreting.

If ADINGPOKS M is used as a primer for other epoxy or methacrylate substrates, the concrete must be at least 28 days old. Cement milk, penetrated grease and impurities in the substrate should be removed mechanically.

Adingpoks M can also be applied on a completely water-saturated concrete substrate.

APPLICATION

APPLICATION OF ADINGPOKS M AS A COATING

Before preparing the mixture, components A and B need to be mixed separately. The material is prepared by mixing the two components with an electric slow mixer (300 to 500 rpm) until complete homogenization. The amount of material to be mixed should be in accordance with the open working time of the product. The application is performed evenly on the surface, with a roller. In highly porous substrates, it can be applied in two coats. The temperature of the substrate during application should be from 10°C to 30°C. The ambient temperature during construction should be from 10°C to 30°C. ADINGPOKS M can be applied during increased relative humidity, but it is recommended that it does not exceed 80%.

PREPARATION OF EPOXY REPAIR MORTAR

Epoxy mortar is prepared by slowly mixing components A and B of Adingpoks M (until completely uniform), and then add quartz filler. Recommended ratio of Adingpoks M : Quartz filler is 1:4 to 1:10. A slow mixer is used for mixing the epoxy mortar until complete homogenisation. The surface where the mortar is applied is finally treated with a steel trowel, whereby the material is pressed until complete closure of the surface structure.

For illustration, the following table shows the test results of epoxy mortar prepared with Adingpoks M and Quartz filler (0.0 - 1.25 mm). Mixing ratio is Adingpoks M : Quartz filler (0.0 -1.25 mm)=1:4; (1:7); (1:10).

PROPERTY	METHOD	DECLARED VALUE
Mixing ratio- A+B : quartz filler (0,0-1,25 mm) = 1 : 4		
Compressive strength	EN 12190	>70 MPa
Adhesive strength	EN 1542	>3 MPa
Mixing ratio- A+B : quartz filler (0,0-1,25 mm) = 1 : 7		
Compressive strength	EN 12190	>45 MPa
Mixing ratio- A+B : quartz filler (0,0-1,25 mm) = 1 : 10		
Compressive strength	EN 12190	>30 MPa

- When using epoxy mortar for concrete reparations, it is necessary to perform previous testing.

CONSUMPTION

For one layer: 0.15 - 0.25 kg / m² (as a primer and as a coating)

For layer thickness 10 mm (consumption of epoxy repair mortar): 15-21 kg/m², depending on the mixing ratio

CLEANING

Tools and equipment are cleaned with Solvent P immediately after usage.

PACKAGING

In sets of (A + B component) 3 kg
(Component A 1.9 kg and Component B 1.1 kg)

In sets of (A + B component) 24.3 kg
(Component A 15.3 kg and Component B 9.0 kg)

STORAGE

In original closed packing, in dry chambers, at temperatures from 10-30°C, protected from direct exposure to sunlight. Usage: 9 months.

Health hazards: Avoid contact of the product with skin and eyes and avoid direct inhalation when mixing components. In case of accidental contact of the product with the skin, remove it immediately with clean water and soap. If the material splashes into the eyes, immediately rinse the eyes with clean water and seek medical advice. It is necessary to ensure ventilation of the premises where resins are handled. Additional information is provided in the Safety Data Sheet of the product.

Fire: Adingpoks M and Solvent P contain flammable substances. Do not use near open fire or smoke during installation. Additional information is provided in the Safety Data Sheet of the product.

Cleaning and disposal: Unbound residues from Adingpoks M are cleaned with Solvent P. Old used packaging needs to be disposed of in accordance with local regulations and regulations for that type of waste. We recommend the method of application and the required quantities to be adjusted to the conditions of the object, as well as the mandatory application of appropriate equipment. Additional information is provided in the Product Safety Data Sheet.