

ADINGPOKS RM

Three-component system (A+B+C), Epoxy based repair mortar, used for structural repairs of horizontal concrete surfaces

Two-component system (A+B), Epoxy coating, used for impregnation and protection of concrete surfaces

FIELD OF APPLICATION

Adingpoks RM is a three-component epoxy mortar for structural repair of horizontal concrete and reinforced concrete structures, such as: concrete slabs on bridges, industrial floors, airport runways, ramps in garages, etc. Adingpoks RM is used for:

- rehabilitation / filling of unevenness on horizontal concrete surfaces
- protection of concrete from carbonation and freezing;
- Increase physical-mechanical properties of concrete surface;
- Repair of concrete according EN 1504-3;
- As two-component system, Adingpoks RM (A+B) is used as epoxy coating for repair and protection of concrete structures, according EN 1504-2;
- As two-component system, Adingpoks RM (A+B) is used as epoxy primer (pre-coating) prior to application of flooring system based on epoxy resin, and waterproofing system based on bitumen and MMA (Methyl Methacrylate);

When used for repair of concrete traffic pavement on bridges, Adingpoks RM is also epoxy base for direct application of waterproofing system with bitumen strips. The epoxy coating Adingpoks RM can withstands the thermal changes during the application of the bitumen strip waterproofing, as well as the application of the asphalt.

PROPERTIES

- High strength characteristics;
- High resistance to wearing (abrasion);
- Enables protection of concrete from carbonation and ingress
- Waterproofed;
- Vapor-permeable;
- Excellent adhesion to moist and dry concrete;
- Enables direct application of secondary coatings, waterproofing and flooring systems;

TECHNICAL FEATURES

PROPERTY	METHOD	DECLARED VALUE
Appearance		
A component		viscous liquid
B component		viscous liquid
C component		powder mass
Mixing ratio		A:B:C = 2:1:12
Density (A+B+C)	EN 12190	1,9-2,0 g/cm ³
Density (A+B)	EN 12190	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
Compression strength	EN 12190	≥70 N/mm ²
Bending strength	EN 12190	≥30 N/mm ²
Maximal grain size	-	1,25 mm

METHOD STATEMENT:

1. SUBSTRATE PREPARATION

Concrete substrate on which material is applied must be clean, sound, firm and free of dust and grease. Cement bleeding residues and traces of paint and oils must be cleaned mechanically or chemically. Ambient and substrate temperature need to be 10-30°C. In case of reparation of old and damaged concrete elements, exposed steel reinforcement and anchors must be cleaned from corrosion, remains of paint and oil (using steel brush or sand-blasting).

In order to achieve higher adhesion, it is recommended to apply epoxy coating Adingpoks RM (A+B) or Adingpoks 1PV prior to application of epoxy mortar.

It is recommended to apply Adingpoks RM minimum 7 days after the casting of concrete in order to avoid crack formation due to initial shrinkage of concrete.

2. APPLICATION

Preparation: Prior to application, components A and B must be mixed separately. Then, component B is slowly added to the component A and it is mixed constantly using slow electrical mixer (300 to 500 rot /min) until complete homogenization. To these mixture, component C is gradually added and again mixed until homogenization.

In order to increase workability of material, Solvent P can be added in the mixture 2% do 5% from the quantity of epoxy resin (A+B).

Application of material is carried out manually with spatula or metal trowel.

When applied as two-component system, Adingpoks RM (A+B) can be applied with brush, roller or by spraying.

3. CONDITIONS AND LIMITATIONS OF APPLICATION

Temperature of concrete substrate and ambient temperature during application and 24 hours after application need to be between +5°C and 30°C, and relative humidity lower than 80%. During this period, applied material need to be protected from exposure to rain.

CONSUMPTION

Epoxy mortar, Adingpoks RM (A+B+C), for one layer 10 mm thick: 19-20 kg/m²

Epoxy coating, Adingpoks RM (A+B), for one layer: 0,2-0,3 kg/m²

CLEANING

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

PACKAGING

Tri-component system
Set A+B+C: 15 kg
A component: 2,0 kg
B component: 1,0 kg
C component: 12 kg

Tri-component system
Set A+B: 36 kg
A component: 24 kg
B component: 12 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 RM 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 RM 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.