

ADINGPOKS 1

Low viscosity, two component, solvent free epoxy resin used as transparent final coating or for preparation of epoxy mortar In compliance with EN 1504-2:2004/2.2(C), 5.1(C); 6.1(C), 8.2(C) and EN 13 813: 2002/SR B2.0-IR20

FIELD OF APPLICATION

Epoxy resin used to prepare epoxy mortar, epoxy levelling compound or as final transparent coating for wall and floor, where joint-less system is required or where the surfaces are intended to be exposed to high mechanical and chemical impacts, according to the requirements for high hygiene levels.

PROPERTIES

- Excellent adhesion to the substrate;
- High resistance to abrasion;
- High resistance to diluted acids;
- High resistance to dilutions of salts and mineral oils;
- Solvent free;
- Non- toxic when cured;
- Bacteriologically resistant;
- Decorative;
- Final flooring without joints;
- Easy maintenance.

TECHNICAL FEATURES

| PROPERTY | METHOD | DECLARED VALUE |
|---|---------------|--|
| Appearance | visual | viscose mixture |
| Mixing ratio | - | A:B = 2:1 |
| Density | EN ISO 2811-1 | 1,0-1,1g/cm ³ |
| Adhesion to the substrate/ bond strength by pull-off test | EN 1542 | ≥2MPa |
| Water absorption | EN 1062-3 | w≤0,1kg/m²h ^{1/2} |
| Water vapor permeability | EN ISO 7783 | class III Sd>50m |
| Abrasion resistance | EN ISO 5470-1 | < 3000mg |
| Impact resistance | EN ISO 6272-1 | class II ≥10Nm |
| Resistance to severe chemical attack (petrol, diesel, motor oil, 10%CH ₃ COOH, 20%H ₂ SO ₄ , 20%NaOH; 20%NaCl) | - | class II, reduction in Shore hardness ≤ 50% |
| Tensile strength of mortar prepared with Adingpoks 1: Polnilo S/H 0,3-0,8mm, ratio 1:3 | - | >20MPa |
| Compressive strength of mortar prepared with Adingpoks 1: Polnilo S/H 0,3-0,8mm, ratio 1:4 | - | > 55MPa |
| Open time on 20°C | EN 12189 | up to 30min |
| Touch dry on 25°C | - | 5h |
| Period between two layers, on 25°C | - | 24h |
| Hardness after 1 day, on 25°C | ISO 868 | 65 Shore D |
| Hardness after 7 days, on 25°C | ISO 868 | 51 Shore D |
| Substrate and air temperature during the application | - | 10-30°C |
| Relative substrate humidity | - | < 7% |



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| Relative air humidity | - | < 70% |
|--|---|-------------------------|
| Mechemical use, on 20°C | - | after 3 days |
| Chemical use (including water contact), on 20°C | - | after 15 days |
| Stability of the coating during the exploitation | - | between -20°C to + 70°C |

METHOD STATEMENT

SUBSTRATE PREPARATION

The substrate for application must be sound, dry, clean, free of dust, grease and condensate. It must be waterproofed, in order to prevent separation of the final coating as a consequence of negative hydrostatic pressure. The moisture of the substrate must be lower than 7%, the temperature during the application between 10-30°C and the relative air humidity must be lower than 70%, to prevent condensation on the substrate for application. The application on substrate with condensate can result with visual changes of the coating, lose the gloss or show spotting. Despite these negative effects the physical and chemical characteristics of the coating would not change.

New concrete substrate

Concrete must be cured at least 28 days, the compressive strength must be over 25MPa and the structural moisture of the substrate must be less than 7%. Cement laitance, mortar, stains of paint and grease must be removed mechanically or using chemicals. Finally the substrate should be cleaned of dust using industrial vacuum cleaner.

Old concrete substrate

In order to achieve an excellent adhesion to the substrate, it must be sound and clean. The cement laitance should be removed mechanically. Penetrated grease and dirt into the substrate should be removed using detergents or special agents. All cracks and damages of the substrate must be repaired using suitable materials.

Old epoxy substrate

The surface should be treated with sandpaper and it must be clean of dust.

APPLICATION

The substrate for application should be primed using Adingpoks 1P or Adingpoks 1PV (for substrates with higher moisture). Apply the primer by squeezing it into the substrate using brush or fur roller. The extremely porous substrates need to repeat the priming, before Adingpoks 1 is applied. For substrates with joints, it is necessary to fill the joints using epoxy mortar. Mix A and B component of Adingpoks 1 until the mixture homogenize using slow mixer (300-500 rotations/ minute). The application and the mixed quantity of the product must be applied during the open time of the product (30min counting of the moment when the components are mixed together).

Apply coating of Adingpoks 1 in layer with uniform thickness using rubber trowel and paint it using fur roller.

To prepare epoxy mortar of Adingpoks 1 mix the component A and B using slow mixer until the mixture homogenize. Then add quartz sand Polnilo S/H 0.3-0.8mm. The ratio between Adingpoks 1 and the quartz sand is according to the required viscosity of the mortar: for vertical surfaces, ratio 1:6 and for horizontal surfaces between 1:3 and 1:4. Apply epoxy mortar pressing it using steel trowel and flat the final surface. When required, the surface with applied mortar can be coated using Adingpoks 1.

To prepare epoxy levelling compound for vertical substrates mix Adingpoks 1 with Polnilo S/H 63µ, ratio 1:1. Prepare levelling compound for horizontal surfaces using Adingpoks 1 and Polnilo S/H 0.0-0.3mm, ratio 1:2. Apply it using steel trowel.

The temperature of the substrate and air temperature during the application should be between 10-30°C.

MAINTENANCE

Epoxy durability depends of the appropriate maintenance. Clean the final coating of Adingpoks 1 using washing machines with brushes, water soluble detergents or warm water.

CONSUMPTION

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Adingpoks 1P: 0.2-0.35kg/m² Adingpoks 1 (coating): 0.20-0.40kg/m²



5/H 63µ, ratio 1:1. 0.3mm, ratio 1:2. een 10-30°C. dingpoks 1 using

CLEANING

Clean tools and equipment right after the application, using Solvent P. **PACKAGING**

Sets A+B: 3kg A component: 2kg B component: 1kg

Sets A+B: 9kg A component: 6kg B component: 3kg

STORAGE

In the original, closed packaging, placed in dry rooms at temperature between 10°C and 30°C. The product must not be exposed to direct sunlight and freezing. Shelf life: 9 months.

CE MARKING

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|---|---|--|
| | GDFC001/6 | |
| EN 1504-2:2004 | | |
| Epoxy surface protection s | ADINGPOKS 1 system for concrete, for moisture control and improved physical and | |
| Adhesion strength by pull-off test | ≥ 2,0 N/mm² | |
| Capillary absorption and permeability to water | w < 0,1 kg/m²·h ^{0,5} | |
| Permeability to water vapour | Class III, S _D > 50 m | |
| Abrasion resistance | < 3000 mg | |
| Impact resistance | Class II ≥ 10 Nm After loading, no cracks, no delamination | |
| Resistance to severe chemical attack | Class II: 28 days without pressure ≤ 50% reduction in Shore hardness after treatment in test liquids: petrol; diesel and motor oil; 10% CH₃COOH; 20% H₂SO₄; 20% NaOH; 20% NaCl | |
| Reaction to fire | Class F | |
| Dangerous substances | No performance determined | |

<u>Health hazards</u>: Avoid contact of the product with skin and eyes, as well as direct inhalation when you mix the components. In case of accidental contact, the product should be removed immediately with dry towel or mildly wetted towel with Solvent P. Then, wash the spot with pure water and soap. If the material has been splashed into eyes, immediately rinse it with pure water and call for medical help. Ventilate the room where you use resigns and solvents.

Fire: The product is not flammable.

<u>Cleaning and disposal:</u> Loose residues of Adingpoks 1 are cleaned with Solvent P. The old and used packing should be discarded in accordance with the local relevant regulations.

We recommend that the method of application and the necessary quantities should be adjusted to the conditions on site, as well as mandatory use of appropriate equipment.

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