ADINGPOKS-1EKO

Low-viscosity, two-component, solvent-free, epoxy resin for preparation of mortar or for applying a transparent finish
Compliant to ASTM C 469 and ASTM D 2240

Field of application:

The material is used for preparation of epoxy mortar and epoxy putty, or for a transparent finish. It is used as a finishing layer for jointless, mechanically-loaded and acid-resistant floors, or it can be applied on walls in line with the requirements of the systems for maintenance of high level of hygiene.

Properties:

- Excellent adhesion to various types of substrate;
- High abrasion resistance;
- Good resistance to thinned acids;
- Resistance to salt solutions and mineral oils;
- Solvent-free;
- Non-toxic when bound;
- Resistant to bacteria;
- Decorative;
- Jointless – floor coating without any joints;
- Easy to maintain.

Technical features:

Mixing ratio:	A:B=2:1
Density:	1.0 – 1.1 g/cm^3
Abrasion resistance (Böhme test):	3.2 cm3/50 cm^2
Adhesion strength According to EN 1542:	4-5 MPa
Temperature stability:	-20°C to +70°C
Pot life at 25°C	30 minutes
Drying time at 25°C	5 hours
Time interval between the first and the second layer at 25°C	24 hours
Initial cure at 25°C	1 day
Final cure at 25°C	3 days

Technical features:

The substrate should be sound, dry, clean, grease-free and dust-free. The concrete substrate should be provided with a waterproofing system and protected against water penetration in order to avoid that the coating separates from the substrate as a result of negative water pressure.

New concrete substrate

Concrete should be at least 28 days old with minimum compressive strength of 25 MPa and level of humidity not higher than 5%. Laitance, mortar residues, paint stains and oil stains should be removed by mechanical or chemical means. In the end, the substrate should be dusted by using an industrial vacuum cleaner.

Old concrete substrate

Having a sound and clean substrate is the main pre-condition for achieving good adhesion. Similar to the new concrete substrate, removal of laitance should be carried out mechanically. The grease and dirt penetrated in the substrate should be removed with detergents or special preparations for that purpose. Any damage to the substrate should be repaired by using appropriate materials from the product assortment of ADING.

Old epoxy substrate

The substrate should be subject to gentle surface roughening by using sandpaper and it should be dusted.

Application:

The substrate that is to be treated should be primed with Adingpoks-1P, Adingpoks 1P EKO or Adingpoks 1PV (there is no need of applying a primer on epoxy substrates). Construction joints should be filled with epoxy sealant Adingpoks K. It is applied by rubbing the material into the substrate by using a hard brush. In case of more porous substrates, it may be necessary to apply primer twice. The material is prepared by adding A component and B component together and mixing them with a slow electric mixer (300-500 revolutions/min.) until a completely uniform mixture is obtained. The amount of the material that is being mixed should be adjusted to its pot life (workability period).

The coating of Adingpoks-1 EKO should be applied on the substrate evenly by using a rubber trowel and it should be spread away immediately by using a short-haired wool paint roller.

The epoxy mortar made of Adingpoks-1 EKO is prepared by adding A component and B component together and mixing them slowly (until obtaining a completely uniform mixture) and then adding quartz filler – Filler C/X 0.3-0.8 mm. Mixing is done exclusively by using a slow mechanical mixer. The ratio between the resin and the quartz filler for vertical surfaces is 1:3 to 1:4, whereas for horizontal surfaces it is up to 1:7 and it depends directly on the required workability. The finishing should be applied by using a steel trowel, manually or mechanically (rotating trowels), so as to compact the material until covering the surface structure. If necessary, Adingpoks-1 EKO may be applied as a finish to cover the structure completely. In cases of applying epoxy putty on vertical surfaces, Adingpoks-1 EKO should be mixed with Filler C/X 63µ in ratio of 1:1. In cases of applying it on horizontal surfaces, the ratio between Adingpoks-1 EKO and the Filler C/X 0.0-0.3 mm should be 1:2. The material should be applied and compacted by using a steel trowel.

The substrate temperature and the surrounding temperature during application should range between 10°C and 30°C.

Maintenance:

The longevity of the floor depends on proper maintenance. The floor treated with Adingpoks-1 EKO can usually be cleaned with rotating soft brushes, with detergents dissolved in water or with warm water up to 30°C.

Consumption:

Adingpoks-1P	0.2 – 0.35 kg /m^2
Adingpoks-1 EKO (as a coating)	0.20 – 0.40 kg/m^2

Cleaning:

The tools and equipment should be cleaned with Solvent P (Rastvoruvac P) immediately after use.

Packaging:

In sets A + B: 3 kg
A component: 2 kg
B component: 1 kg

In sets A + B: 9 kg
A component: 6 kg
B component: 3 kg

Storage:

In the original closed packaging, in dry premises, at temperature between 10°C and 30°C, protected from exposure to direct sunlight. Shelf life: 9 months.

Health hazards: Avoid contact of the product with skin and eyes and avoid direct inhalation when mixing A and B component. In case of accidental contact of the product with the skin, remove it immediately by using a dry towel or a towel lightly soaked in Solvent P (Rastvoruvac P), and then wash the skin thoroughly with clean water and soap. If the material splashes into the eyes, immediately rinse the eyes with clean water and seek medical advice.
Fire: It is necessary to ensure ventilation of the premises where resins and solvents are handled.
Cleaning and disposal: Loose residues of Adingpoks-1 EKO should be cleaned with Solvent P (Rastvoruvac P). The old and used packaging should be disposed of in accordance with local regulations for that type of waste.
We recommend that the method of application and the necessary quantities should be adjusted to the conditions of the building, as well as mandatory use of appropriate equipment.

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