

EpiSeal EK3

Epoxy Based, 3 Component, Solvent-free, Repairing and Filling Mortar Cum Adhesive

Description

EpiSeal EK3 is a solvent-free epoxy resin compound and specially blended quartz sand other fillers are formulated for the repair of faulty concrete, curing taken place even at low temperature and humidity. The cured mortar exhibits several outstanding properties, such as high mechanical strength, excellent adhesion to a wide range of substrates, outstanding resistance against water and chemicals, negligible shrinkage, etc.

- High Strength bonding adhesive
- Perfect bond for new or old concrete
- Excellent adhesion to most range of substrates
- High early and final strength
- Outstanding water and chemical resistant.

EpiSeal EK3 conforms to ASTM C 881 Grade 3 Type II.

Fields of application

- For bonding or concrete crack repairing by V-cut method.
- For grouting or anchoring.
- For concrete repairing of surfaces damaged due to spalling caused by poorly compacted concrete, incorrectly positioned rebars, corrosion of rebars, settling, honeycombing and air bubbles.
- Adhesive for concrete, masonry, metal etc.

Technical data

Part A & B:	2 component epoxy resin
Part C:	Aggregate Filler
Density (A+B+C):	1.65 ± 0.1 g/cm ³
Pot life at 25°C,	30 – 40 mins
Service temperature:	-30 up to 80°C

Compressive Strength at 7 days <i>ASTM D 695</i>	52 MPa
Flexural Strength at 7 days <i>ASTM D790</i>	24 MPa
Adhesion Strength on Concrete	2.2 MPa
Slant- Shear Bond Strength after 14days	12 MPa (minimum) or concrete failure

Directions to use

Substrate preparation

All substrates should be clean, free from dust, oil, grease and any contaminations that could effect the bonding.

If the substrates need to be cleaned, use methyl ethyl ketone (MEK), acetone or grease remover.

For metals, remove any rust and grease residues, sandblast to white metal.

Mixing

First, stir component A vigorously. Then, add the entire contents of component B to component A. Mixing of the 2 components should take place for about 1-2 minutes, using a low-speed mixer (300 rpm). It is important to stir thoroughly the mixture near the sides and bottom of the container, to achieve uniform dispersion of the hardener.

Place the mixed A and B components into a larger clean mixing bucket and continue mixing while adding component C slowly as per the below mixing table to keep air entrapment at a minimum.

Parts by Weight	Part A	Part B	Part C
	2	1	7.5 - 9.5



The mixing is being done by using a low-speed mixer (300 rpm) until an even distribution of the aggregates throughout the mix has been achieved (approx. for 3-5 minutes).

Application

Apply Mixture must be applied in 40 minutes. Mixture should be applied on the surface with using a trowel as obtained maximum 50 mm thickness.

Depending on the weather conditions 10-48 hours should be waited before layers. The product would be completely cured in minimum 7 days. During the application, ambient and surface temperatures should be between +10°C and +60°C. After application, the material should be protected from direct contact with water for a minimum of 24 hours..

Remarks

- Minimum substrate and ambient temperature must be greater than 5°C. Epoxy grout should be protected from temperature extremes.
- Do not thin with solvents. Consult our Technical Services.

Cleaning

Clean tools and equipment first with paper towels and then wipe by using Acetone, xylene or other suitable solvents.

Packaging

EpiSeal EK3 is supplied in container (A+B+C) of 8.5 kg and 17 kg Kit.

Shelf life

12 months from production date if stored in original, unopened packaging, at temperatures between +5°C and +35°C. Protect from direct sunlight and frost.

Health & safety

Avoid direct contact with this product. Use of safety glasses, rubber gloves, and protective clothing is recommended. If contact occurs, wash affected areas with mild soap and water. Keep product out of reach of children.

Refer to Safety Data Sheet for complete health and safety information.

Notes

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