

EpiSeal EK

2 Component Solvent Free Epoxy Bonding Agent & Adhesive

Description

EpiSeal EK epoxy bonding agent is a solvent-free epoxy resin compound specially formulated for the repair of faulty concrete, curing taken place even at low temperature and high humidity. The cured resin 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 i.e. concrete, steel, wood, masonry, pre-cast panels etc.
- High early and final strength
- Outstanding water and chemical resistant.

EpiSeal EK 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 flooring.
- Adhesive for concrete, masonry, metal etc.
- For Monolithic construction joints between fresh and hardened concrete and steel etc.

Technical data

Mixing Ratio Part A:B by weight	2 : 1
Density:	1.25 ± 0.05 g/cm ³
Pot life, minutes at 27°C,	30 – 40 mins
Compressive Strength <i>ASTM D 695</i>	42 MPa

Tensile Adhesive Strength <i>ASTM D-638</i>	6.2 MPa
Flexural Strength at 7days	12 MPa
Slant- Shear Bond Strength after 14days	8 MPa (minimum) or concrete failure
Coverage	0.3 - 0.8 kg /m ² per coat depending surface profile

Directions to use

Substrate preparation

All substrates should be clean, dry, 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. Always be sure that the substrates are dry before the application.

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

Mixing

A suitable power driven mixer / stirrer is recommended for uniform mixing of **EpiSeal EK**. Stir the base and hardener separately. Add hardener into the base and stir well till a uniform color is achieved. Wait for 5 minutes for induction. Remix the mass again before apply it.

If the more viscous nature is required for the specific application, add up to 1kg of **QTZ R60** filler per 3kg kit of **EpiSeal EK**.

Application

Apply a thin layer of **EpiSeal EK** with brush or



squeeze to the existing surface, working well into the substrate.

Place the fresh concrete / mortar while **EpiSeal EK** epoxy bonding agent is still tacky.

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.
- Not for injection of underwater cracks at the time of application and for cracks greater than 6 mm.
- Not an aesthetic product. Color may alter due to variations in lighting and/or UV exposure.

Cleaning

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

Packaging

EpiSeal EK is available in 2.0kg Kit and 4.0kg 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

The information included on this Technical Data Sheet is the sole property of SUPERBUILD LTD. The unauthorized disclosure, use, dissemination or copying (either whole or partial) of this data sheet or any information it contains, is prohibited and subject to legal pursuit..