



Technical Data Sheet

Description

Tek-Crete EGP is a three component, trowellable, high build epoxy repair mortar. It is a solvent free system consisting of epoxy resin, amine hardener and specially graded quartz fillers. This is especially suited for general purpose horizontal repairs requiring high early mechanical strength upto 30 mm thickness in a single layer application.

Advantages

- Dense, impermeable water proof surface
- Moisture tolerant, can be applied on slightly damp surfaces
- Non-Shrinking
- High Chemical resistance
- High Durability
- High abrasion resistance
- Can be applied in both internal and external areas

Uses

- Repair of concrete
- Old and worn concrete
- Glazed tile and bricks
- Soffits, columns, lintels, pipe linings etc
- Engineered and semi engineered bricks
- Offshore and marine structures

Physical Properties*

Property	Typical Results
Solid content by weight	100%
Compressive Strength @ 3 days	80 MPa
Tensile Strength @ 3 days	14 MPa
Flexural Strength@ 3 days	25 MPa
Application Temp	5°C – 35°C
Initial Hardness	3–4Hr
Pot Life @ 25 Deg C	90 Min
*The above properties are average laboratory values	

Standards Compliance

ASTM C 109, ASTM D 638, ASTM C 580

Packing

Tek-Crete EGP is available in 16 kg. pack of part A, B and C.

Theoretical Coverage Rate

1 m²@ 8 mm thickness per pack

Actual coverage depends on wastage & surface profile

Shelf Life

12 months when stored in cool dry environment in factory packed unopened containers between 5°C – 25°C.

Installation Guidelines

Spraytek provides detailed method statements on all its products for use in various applications. These must be referred to prior to starting the work. The information below is a summary intended for guidance only.

Surface Preparation

Substrates must be structurally sound. Loose or unsound substrate should be removed. Surfaces must be entirely free of oil, grease, paint, corrosion deposits, dust, laitance or other surface deposits. The substrate must be prepared to create a 'key' for bonding by shot blasting or water blasting or by manual methods. Remove all rust from the rebar, if any, and immediately apply **Tek-Prime ZR** onto the full surface of the rebar and allow to dry.

Priming

The prepared surface should be primed with **Tek Bond EP**. The contents of the hardener should be emptied into the base component and stirred with a spatula until the product appears uniform. The mixed primer should be applied by a stiff brush at 10-15 m² per liter. Allow the primer to become tack free prior to the application of mortar. If the primer appears to absorb into the surface easily, it will be necessary to apply a second coat once the initial coat is tack free.

Mixing

Tek-Crete EGP comes in 3-component ready to mix pack. Under no circumstance should part mixing be allowed. First mix the two liquid components (A & B) for 3 minutes, then transfer to a clean suitable mixing container. Add part C slowly while simultaneously mixing with a slow speed drill fitted with a paddle, mix for 5 minutes until a uniform consistency and all fillers are coated. Apply immediately.

Application

For vertical placement, apply by trowelling the material firmly against the substrate working from bottom going up. For deep patches more than 30mm, apply in layers allowing each layer to stiffen before proceeding with subsequent layers. Each preceding layer should be crosscut and re-primed. Each layer should be 30mm maximum. For overhead work, simply trowel a 10mm thin layer of **Tek Crete EGP**. Build up in 10mm thin layers until maximum application thickness is reached (20 – 30 mm). Cross cut and re-prime using **Tek-Prime SF**, for each preceding layer. Always work from outside edge to the centre. Final layer can be finished with a steel trowel.

Cleaning

All tools shall be cleaned with solvent as per Spraytek recommendation immediately after use. Hardened materials can be removed mechanically only.

Precautions

Do not add any thinner or solvent.

Do not apply in wet conditions or at temperature below 3°C of the dew point.

Do not dispose into water drains.

Technical Support

Spraytek offers full technical support package to specifiers, contractors and end users, as well as technical assistance on site and after sales consultations.

Health & Safety

As with all chemical products, caution should always be exercised. Protective clothing, such as gloves and goggles, should be worn. See packaging/MSDS for specific instructions.

Treat any splashes to the skin or eyes with fresh water immediately. Should any of the products be accidentally swallowed, do not induce vomiting, but call for medical assistance immediately.

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