



Technical Data Sheet

Description

Tek-Crete EFC is a multi-component epoxy resin based putty specially formulated from graded fillers and non-sagging agents which makes it ideal for application on vertical surfaces. Designed for application for use in vertical, horizontal and overhead concrete surfaces.

Advantages

- High strength
- Resistant to wide range of chemicals
- Non-toxic
- Can be used in contact with potable water
- Can be over coated

Uses

- Blow hole filling
- Fairing coat
- Repair of imperfections in concrete
- Bonding of masonry & Pre-cast concrete panels
- Installation of anchor bolts

Physical Properties*

PROPERTY	TYPICAL RESULTS
Volume solids	100%
Density	1.5 ±0.05
Compressive strength	>65 MPa– at 28 days
Flexural Strength	>20 MPa – at 28 days
Tensile strength	>12 MPa – at 28 days
Appearance	Grey paste
*The above properties are average laboratory values	

Packing

Tek-Crete EFC is available in 3 kg kit.

Theoretical coverage rate

1.5 kg/m² at 1mm thickness.

Actual coverage rates will depend on wastage and substrate profile.

Shelf Life

12 months when stored in factory packed unopened pack, stored in a cool dry and elevated place away from direct sunlight.

Application Properties

PROPERTY	TYPICAL RESULTS
Application temperature	5°C to 40°C
Minimum thickness	1mm
Maximum thickness	5mm
Initial cure	6 hours @ 25°C
Full cure	7 days
Application temperature	5° C to 45° C
*The above properties are average laboratory values	

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

Concrete substrate must be structurally sound. Loose or unsound concrete 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.

Protection of reinforcement steel bars

Remove all corrosion deposits from the exposed reinforcement steel bars.

For protection against corrosion, coat the reinforcement steel bars with **Tek-Prime ZR**.

Priming

The substrate must be clean, primer not necessary prior to application.

Mixing

Thoroughly mix the base 'Part A' prior to adding the hardener 'Part B' using a slow speed drill (300-500rpm) fitted with a mixing paddle. After mixing the base, add all of the hardener to the base and mix for 1-2 minute until both components have fully dispersed and are uniform in color. Add the filler component and mix for a further 3 minutes until homogenous. Be sure to rotate the mixer throughout the drum.

Mix full packs, part mixing not recommended.

Application

Application can be carried out by a steel trowel or putty knife or scraper. Press firmly the mixed mortar into the area to be filled to ensure proper adhesion and full contact. The epoxy putty shall be applied at a maximum thickness of 5mm in one layer. Additional layers should be applied after the applied mortar achieves its initial cure. The area repaired with **Tek-Crete EFC** can be over-coated with any epoxy or polyurethane or polyurea coatings after it achieves its initial cure.

Cleaning

Clean all the tools with **Tek-Clean** solvent immediately after use. Hardened materials can be removed mechanically only.

Precautions

Do not add additional solvent or re-temper the mix.

Ensure the temperature of the filler does not exceed 35°C at the time of mixing.

Do not part mix, use full kit.

Do not apply in rain or wet conditions or at temperature below 5°C.

Do not expose to running water until the product is fully cured for 7 days.

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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