



Technical Data Sheet

Description

Tek-Grout IR is a two component solvent-free 100% solids clear multi-purpose epoxy resin grout. It is a high modulus, moisture insensitive system designed to penetrate and seal cracks in concrete and other mineral substrates.

It has very low viscosity and will penetrate thin cracks from 0.2mm to 15mm.

Advantages

- Low viscosity
- Non-shrink
- Resistant to dynamic loading
- High strength
- Waterproof
- Resistant to wide range of chemicals

Uses

- Crack injection of concrete substrates
- Sealing of cracks
- Thin gap base plate grouting
- Anchoring of small diameter rebar and studs

Physical Properties*

Property	Typical Results
Compressive strength	60 MPa at 1 day
	65 MPa at 3 days
	>85 MPa at 28 days
Flexural strength	60 MPa at 28 days
Tensile strength	25 MPa at 28 days

*The above properties are average laboratory values

Packing

Tek-Grout IR is available in 2.5 lt., 5 lt. and 20 lt. kits.

Shelf Life

12 months when stored in factory unopened packs, stored in a cool dry and shaded place away from direct sunlight.

Application properties

Application Temperature	5°C - 40°C
Minimum Thickness	0.2mm
Maximum Thickness	15mm
Pot life	at 25°C 40 minutes
	at 35°C 25 minutes
Full cure	7 days

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.

Preparation

Clean the surface of the cracked area with steel or preferably rotary wire brush. Any laitance, grease, coating should be removed. Air-sweep using portable air-blowers. **Tek-Grout IR** can be gravity fed or pressure injected into horizontal cracks. Pressure injection must be used for vertical or overhead cracks

Mixing

Add the hardener 'Part B' to the base 'Part A' and mix using a slow speed drill (500rpm) with an Mixer Paddle for 2 to 3 minutes or until both components have fully dispersed and are uniform in color consistency. Be sure to rotate the mixer throughout the can. Mix only full packs.

Horizontal Cracks

Fix injection packers into pre-drilled holes. Seal the surface of the crack with **Tek-Crete EP** and allow to cure for at least 12 hours (longer period in lower temperatures).

The spacing between each packer will depend on the width and depth of the crack. Spacing should be close enough to ensure maximum penetration of the mixed resin and to allow the resin to flow easily to the next packer.

Inject using a proprietary injection pump with a minimum injection pressure of 4 bar.
Allow to cure for 24 hours.

Vertical / Overhead Cracks

For surface cracks, insert polyethylene valves or flanged copper tube entry ports into previously drilled holes at the face of the crack. Minimum depth of drilled holes should be 10mm. Entry ports should be located 200 to 350mm apart. Seal the areas around the entry port and the entire length overlapping the cracks on both sides by 20mm using **Tek-Crete EFC**

Cleaning

Clean tools and equipment immediately using **Tek-Clean**.

Precautions

Will not accommodate movement cracks.
Do not apply below 5°C.
Avoid excessive application.
Avoid skin contact.
Do not discard into the water system.

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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