

# StrongGrout EP10

## Free Flow High Strength Epoxy Resin Injection

### Description

**StrongGrout EP10** is a low viscosity, solvent free, two-part epoxy resin compound. It consists of one part epoxy resin and one part of curing agent. It has high penetrability to the concrete surfaces, and will cure in crack and cavities with negligible shrinkage. It's low viscosity is designed to fill gap width of 0.1 – 10 mm.

**StrongGrout EP10** has been tested in accordance to ASTM C942:1999, on Compressive Strength Test; ASTM D965-02a, on Compressive Properties for Epoxy; BS 5350 Part C15:1990, on Determination of Bond Strength in Compressive Shear and complied with the specification in this data sheet.

### Uses

**StrongGrout EP10** is recommended for cracks and cavities repairs / injection in concrete structures.

### Advantages

- Low viscosity – high penetration
- Well cure with negligible shrinkage
- Suitable for pressure grouting
- Excellent bond strength to steel reinforcement and concrete
- Achieved high early compressive and tensile strength
- Fill hairline crack and cavity, wet or dry

### Standards Compliance

- ASTM D965
- ASTM D638

### Physical Properties

Specific Gravity	1.0 – 1.1
Colour	Amber
Pot Life at 30°C, 500 gr	30 mins
Mixed viscosity	300 – 600 cps
Compressive Strength (ASTM D965)	
1 day	50 N/mm <sup>2</sup>
7 days	75 N/mm <sup>2</sup>
Flexural Strength	≥42 N/mm <sup>2</sup>
Tensile Strength	≥25 N/mm <sup>2</sup>
Shrinkage	Non shrink
Fully cured	7 days
Chemical resistant (acid, base, oil)	Resistant

### Application instructions

#### Horizontal Application

#### Preparation

A V-groove shall be formed along the crack lines before filling with **StrongGrout EP10**. In the case of suspended slabs, the underside of the crack should be sealed to prevent leakage of the crack sealer through the slab.

#### Mixing

Mix Part A (base) and Part B (hardener) of **StrongGrout EP10** in a clean mixing vessel until a uniform mixture is formed. **StrongGrout EP10** shall be mixed thoroughly to prevent lowering of properties. Part mixing is not recommended unless by Estrong technical guide.

#### Application

The mixed **StrongGrout EP10** shall be poured carefully into the cracklines/pre-form V-groove, allowing it to seep in, and keep adding in until it is full. Precaution shall be taken to ensure the crack lines/pre-form V-groove is clean/free from loose particles, debris, oil, grease etc.

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### Vertical Application

#### Preparation

Injection nipples shall be installed along the crack lines. Seal the expose crack lines w. The injection nipples shall be placed 200-400 mm apart, depending

upon the depth of crack. The deeper the crack that form, the closer the injection nipples shall be.

#### Application

As for horizontal application, mix the components thoroughly. The mixed **StrongGrout EP10** can be injected, either by well-fitting grease gun or by paint pressure pot. The injection process shall begin at the bottom-most nipple and injected until mixture exudes from the nipple above. Remove the nipples and plug with appropriate tools. In some cases, it may be necessary to seal the wall on the opposite side with.

STRONGGROUT EP10 SHALL NOT BE ADDED WITH WATER.

#### Cleaning

Tools, etc can be cleaned while the resin is still uncured with solvent cleaner.

#### Packing

**StrongGrout EP10** is packed in 5 kg / set (Base : Hardener = 2 : 1)

### Technical Support

Estrong offers a comprehensive range of high performance, high quality of repair product for both new and existing concrete surfaces. In addition, the company offers a technical support package to specifiers, end-users and contractors, as well as on-site technical assistance.

### Storage

**StrongGrout EP10** should be stored on pallets in dry conditions. Under these conditions, the product will have a shelf life of 12 months. if stored in extreme heat locations the shelf life may be reduced.

### Precaution

**StrongGrout EP10** contains epoxy resins, which may cause skin sensitization in certain individuals. Skin contact should be avoided and a suitable barrier cream shall be applied or disposable rubber or plastic gloves shall be worn.