

## Estorex EP10

### Free Flow High Performance Epoxy Resin

Estorex EP10 is a low viscosity, two-part solvent free 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.

#### Uses

Estorex EP10 is recommended for cracks and cavities repairs / injection in concrete structures with of 0.2 – 10.0 mm with no shrink, high strength and high adhesion to concrete and steel.

#### 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 C881

#### Physical Properties

Specific Gravity	1.1 ± 0.05
Mix Ratio	2 : 1 (A : B)
Mixed viscosity	300 cps (25 °C)
Pot Life	60 min (25 °C)
Shrinkage	No shrink
Modulus Elasticity	
ASTM D695	3,700 N/mm <sup>2</sup>
Tensile Strength	
ASTM D638	28 N/mm <sup>2</sup>
Compressive Strength	
ASTM D695	7 days >70 N/mm <sup>2</sup> 2
Flexural Modulus	
ASTM D790	48 N/mm <sup>2</sup>
Adhesion to Concrete	> 4 N/mm <sup>2</sup> (concrete failure)

#### Application instructions

##### Horizontal Application

##### Preparation

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

##### Mixing

Mix Part A (base) and Part B (hardener) : 2 : 1 of Estorex EP10 in a clean mixing vessel until a uniform mixture is formed. Estorex EP10 shall be mixed thoroughly to prevent lowering of properties. Part mixing is not recommended unless by Estop technical guide.

##### Application

The mixed Estorex 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.

##### Vertical Application

##### Preparation

Injection nipples shall be installed along the crack lines with Estobond EC. Seal the expose crack lines with Estobond EC. 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 Estorex 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 Estocrete WR.

ESTOREX EP10 SHALL NOT BE ADDED WITH WATER.

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### Cleaning

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

### Technical Support

Estop 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

Estorex 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

Estorex 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.

### Additional Information

Estop manufactures and offers a wide range of complementary products, which includes waterstops, waterproofing products, grouts, anchors, specialized flooring products. In addition, a wide range of products formulated for repair and refurbishment of spalled concrete are available.

### Packing & Size

Estorex EP10 is packed in 5 kg set

### Coverage

Estorex 1 litre pack will fill a cavity of 25mm deep with 3 mm wide for a length of approximately 13 m

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