

Estofill

Free Flow High Performance Epoxy Resin

Description

Estofill is a low viscosity, two-part epoxy resin compound. It consists of one part epoxy resin and one part of curing agent. It has high penetrability, and will cure in crack and cavities (wet or dry) with negligible shrinkage.

Estofill has been tested by 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

Estofill is recommended for cracks and cavities repairs in concrete structures, masonry or bricks.

Advantages

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

Standards Compliance

- **ASTM D965-02a**
- **BS 5350 Part C15:1990**

Physical Properties

| | |
|---|-----------|
| Specific Gravity | 1.0 – 1.2 |
| Colour | Amber |
| Pot Life at 30 °C, 500 gm | 30 mins |
| Compressive Strength (N/mm ²), ASTM D965-02a | |
| 1 day | 52 |
| 7 days | 62 |
| Bond Strength in Compressive Shear, N/mm ² | >3.0 |
| Toxicity | Non-toxic |
| Chemical Resistance to Occasional Spillage | |
| Acids | Resistant |
| Alkalis | Resistant |
| Oils | Resistant |
| Petrol | Resistant |

Application Instructions

Horizontal Application

Preparation

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

Mixing

Mix Part A and Part B of **Estofill** in a clean mixing vessel until a uniform mixture is formed. **Estofill** shall be mix thoroughly to prevent lowering of properties.

Application

The mixed **Estofill** shall be poured carefully into the crack lines/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 Estocrete WR. Seal the expose crack lines with Estocrete WR. 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 **Estofill** 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.

ESTOFILL SHALL NOT BE ADDED WITH WATER.

Cleaning

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

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products formulated for repair and refurbishment of spalled concrete are available.

Technical Support

Denka 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 specifies, end-users and contractors, as well as on-site technical assistance.

Storage

Estofill 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.

Packing & Size

| | |
|-----------------|-------------------------------|
| Estofill | 2 litre pack 20 litre pack |
|-----------------|-------------------------------|

Coverage

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

Precaution

Estofill 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

Denka Construction Solutions Malaysia Sdn Bhd offers a wide range of complementary products, which includes waterstops, waterproofing products, grouts, anchors, specialized flooring products. In addition, a wide range of



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