CONSTRUCTION CHEMICALS DIVISION

Technical Data Sheet

FILLGROUT EP10

High Flowable Eposy Resin Crack Injection

Composition and Application Field

FILLGROUT EP10 is a two component chemical curing epoxy resin at low viscosity with excellent adhesion to concrete structures.

Uses

FILLGROUT EP10 is used as epoxy resin injection grout for:

- Concrete masonry.
- Natural stone buildings.
- Tunnels
- Bridges
- Underground constructions.

Advantages

• Solvent free. High compressive strength. No shrinkage. Fast curing.
• Compatible with concrete, steel. Applicable for exterior and interior. High flowable liquid.
• Easy to pour and inject into concrete.
• Application for micro cracks up to 10 mm width.
• Excellent adhesion. Good chemical resistance.
• Provides hygienic-impervious finish.

Surface Preparation

All surfaces should be clean, dry and free from dust and other contaminants. A dry sponge should be used to remove water on wet surfaces. Treat oil or grease contamination should be removed and cleaned by organic solvent e.g. **THINNERCOAT 10.**

Mixing

FILLGROUT EP10 The entire contents of the hardener container should be poured into the base container and mixed thoroughly for at least 3 minutes. Use a heavy duty slow speed power drill with a jiffy mixing blade. Mix the two components in the quantities supplied ensuring hardener container is scraped clean. The mixture must be used within 20 minutes. Do not add solvent thinners at any time.

Application Method

Fixing injection packers:

Install injection packers into drill – holes and fix properly at intervals along the length of each crack. Keep the distances between each packer at 500 mm. Generally it depends on the width and depth of the crack and prevents the filling material from being washed out of the solariumat high flow rates.

The crack between each packer should be filled with epoxy mortar such as **EPOMORTAR FC** (refer to TDS)

FILLGROUT EP10 application should start after full curing of **EPOMORTAR FC** (5 – 8 hours) depending on the nature of the building, ambient temperature, cracks dimensions, hydraulic and hydrostatic pressure.

Use single compressor pump avoiding any contact with water.

The injection pressure is approximately 20 bars and generally depends on the nature of the building.

Inject at intervals to know whether to continue or to stop the process from the reaction of the material.

High temperatures accelerates the rate of reaction.

After curing **FILLGROUT EP10** remove the packers and close the drill holes epoxy mortars such as **EPOMORTAR FC** (refer to TDS)

Coverage

It depends on the nature of the building, ambient temperature, and cracks dimensions, hydraulic and hydrostatic pressure.

Cleaning

Tools and equipment's should be cleaned immediately using **THINNERCOAT 10**.

Package

FILLGROUT EP10	1, 5 liter
EPOMORTAR FC	10.0 kg
THINNERCOAT 10	1, 5 USG

Technical Properties

Appearance	Clear low viscous resin
Specific Density	1.05 ± 0.05
Volume Solids (ASTM D 2823-91)	99% ± 1
Application Temperature	10°C to 35°C
Pot Life @ 35°C	35 mins.
Full Cure @ 35°C	5-7 days
Ultimate Compressive strength	80 N/mm²
Ultimate Tensile Strength	30 N/mm²
Ultimate Flexural Strength	50 N/mm²
Flash point	>200°C

Storage and Shelf Life

Product should be stored at 25oC in dry conditions.
18 months in tightly closed container.

Flammability

FILLGROUT EP10	Non flammable
EPOMORTAR FC	Nonflammable
THINNERCOAT 10	Flammable

Health and Safety

The material should be applied in a good ventilated area. Avoid inhalation of the vapors. Use goggles and vinyl gloves. In case of eye contact, rinse immediately with plenty of clean water, do not use solvent and seek medical attention immediately. The product complies with environmental and occupational health and safety standards ISO 14001 and OHSAS 18001.

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