CONSTRUCTION CHEMICALS DIVISION

Technical Data Sheet

FILLGROUT EP10

High Flowable Epoxy Resin Crack Injection

Composition and Application Field

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

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.
- Applicable 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. Wet substrates should be used sponge dried to remove all surface water, then dried. 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 the two materials mixed thoroughly for at least 3 minutes. Use of heavy duty slow speed power drill with a jiffy mixing blade. Mix the two components in the quantities supplied taking care to ensure 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:

Instale injection packers into drill – holes and fixed properly at intervals along the length of each crack. Keep the distances between each paker and other 500 mm and generally it depends up on the width and depth of the crack and subject to reduce the flow rate and prevent 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** appication shoud be started after full curing of **EPOMORTAR FC** (5 – 8 hours) depends on nature of the building, ambient temprature, cracks dimentions, hydraulic and hydrostatic pressure. Use single compressor pump avoiding any contact with water. The injection pressure is approximatly 20 bars and generally depends on the nature of the building. Carry out the injection at intervals so that conclusion can be drawn from the reaction of the material as to whether to continue or to stop the injection process. Higher temprature 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 nature of the building, ambient temperature, and cracks dimensions, hydraulic and hydrostatic pressure.

Cleaning

Tools and equipment can cleaned immediately by using THINNERCOAT 10.

Package

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

Technical Properties

Appearance	Clear low viscous resin.
Density DIN EN ISO 2811	1.05 ± 0.05
Volume Solids ASTM D 2823 – 91	99 % ± 1
Application Temperature	99 % + 1
Pot life @ 35ºC	35 minutes
Full Curing @ 35 º 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^{0}C

Storage and Shelf Life

Product should be stored at 25ºC in dry conditions. 12 months in tightly closed container.

Flammability

FILLGROUT EP10	Non flammable
EPOMORTAR FC	Non flammable
THINERCOAT 10	flammable

Health and Safety

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

Revision 1 December 2011