

FILLGROUT PU40

Single Component Polyurethane Injection

Composition and Application Field

FILLGROUT PU40 is a single component high flowable polyurethane resin injection. It is based on a special modified MDI prepolymer solvent free type. This product is used as injection grout for sealing of water leakage by fast reaction with water forming plug foam.

Advantages

- Single component.
- Solvent free.
- 40 times expanding.
- No shrinkage.
- Fast reaction with water.
- Compatible with concrete, steel.
- Applicable for exterior and interior.

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 PU40 is a single component been directly used. Do not add solvent thinners at any time.

Application Method

Fixing injection packers:

Install injection packers into drill – holes and fixed properly at intervals along the length of each crack. Keep the distances between each packer 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 solarium at high flow rates. The crack between each packer should be filled with epoxy mortar such as **EPOMORTAR FC** (refer to TDS) **FILLGROUT PU40** application should be started after full curing of **EPOMORTAR FC** (5 – 8hours) depends on 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. 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 temperature accelerates the rate of reaction. After curing **FILLGROUT PU40** 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 PU40	1, 4, 12 liter
EPOMORTAR FC	10.0 kg
THINNERCOAT 10	5 USG

Technical Properties

Appearance	Clear low viscous resin.
Density DIN EN ISO 2811	1.12 + 0.05
Viscosity DIN EN ISO 2811	1200 mPa.s
Volume Solids ASTM D 2823 - 91	98 % ± 2
Application Temperature	10°C to 35°C.
Reaction time	20 second at 35°C.
Flash point	> 200°C

Storage and Shelf Life

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

Flammability

FILLGROUT EP10	Non flammable
EPOMORTAR FC	Non flammable
THINNERCOAT 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.