



# FILLGROUT PU40

## Single Component Polyurethane Injection

### Composition and Application Field

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

### Uses

**FILLGROUT PU40** is used as PU injection grout for:

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

### 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. 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 PU40** is a single component material. Do not add solvents 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 PU40** 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 PU40** 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

<b>FILLGROUT PU40</b>	1, 4, 12 liter
<b>EPOMORTAR FC</b>	10.0 kg
<b>THINNERCOAT 10</b>	5 USG

### Technical Properties

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

### Storage and Shelf Life

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

### Flammability

<b>FILLGROUT PU40</b>	Non flammable
<b>EPOMORTAR FC</b>	Nonflammable
<b>THINNERCOAT 10</b>	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.