

# TWO-COMPONENT PU PLAIN INJECTION GROUT

# Description

**Dr. Fixit PU Plain Injection** is based on hydroxyl terminated hydrophobic polyol & iso cyanate terminated hardener. It is used for sealing & filling of dry, damp or water bearing cracks. It serves as horizontal water stop against capillary rising moisture in brickwork, stone work, etc. It has low viscosity, high penetration, quick setting and forms tough & flexible polyurethane rubber after complete chemical reaction.

# Areas of Application

- Sealing of concrete construction joints, hairline & wider cracks by injection grouting
- Sealing of brick construction cracks
- Injection grouting of drinking water reservoir & dams
- Sewers & waste water effluent tanks grouting
- Grouting in tunnels
- Suitable for injection in to wet & dry concrete structures
- Grouting of manholes & utility boxes
- As backup injection to Dr. Fixit PU Foam Injection under pressure

### Features & Benefits

- Consistency Very low viscosity benefits in high fluidity & penetration
- Stability After curing, it forms inert and stable polyurethane rubber
- **Compatibility** It is not compatible with water hence injection grouting is possible in presence of water in the substrate
- Curing Cures in ambient temperature in air as well as in presence of water
- Toughness & flexibility After curing it provides tough & elastic properties of PU
- Bonding Bonds strongly to brick, stone & cementitious substrate in air & to wet surfaces
- Non-toxic It is certified for drinking water contact

# Method of Application

#### **1 SURFACE PREPARATION**

- Prior to injection procedure, check the nature of building structure, type of cracks, hydrostatic conditions & water quality. Clean the cracks & crack edges so that the source of water leakage can be detected.
- Remove all spalled layers of plasters from the area of the injection level and patch all joints and defective brickwork with quick-drying cement mortar. Drill-holes taking into consideration the actual size (thickness) of the wall/concrete member and the size & length of injection packers to be used.
- In the case of crack injections into brickwork and horizontal water stops, drill the holes into the bricks to ensure that the mechanical packers are fastened tightly. When tightening the packers, make sure that the injection hose rests comfortably on the zerk or button head fittings.

#### 2 MIXING

• Empty components A and B, which are provided according to the required mixing ratio of 2:1 (parts by volume) or measured out in separate containers by the user completely into a mixing vessel and mix homogeneously.

#### 3 APPLICATION - INJECTION PROCEDURE

- Apply Dr. Fixit PU Plain Injection by means of a single or two-component pump. Make sure that only pure Dr. Fixit PU Plain Injection without any residues from cleaning agents or other foreign matter is injected.
- The injection pressure depends on the nature of the building and the hydrostatic conditions. In case of crack



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injections, the injection procedure must be continued until the crack is filled completely and the **resin can** be seen emerging from the adjacent packers.

### 4 FINISHING

• After the curing process of the injection resin (approx. 24 hours after the injection), remove the packers and close the drill-holes with suitable mineral building materials (quick-binding cement, swelling mortar)

### 5 CLEANING

• Clean the equipments & tools thoroughly with PU cleaner at any time when work is interrupted for a longer period of time & immediately after use. The cured material can be soften by using an etch-cleaning compound & removed by scrapping / pressure.

# **Precautions & Limitations**

- Do not allow the material to enter drains or soil in an unmixed state.
- Ensure that all spalled layers of plasters from the area of the injection and all joints and defective brickwork are properly patched and levelled with suitable repair mortar.

# **Technical Information**

PROPERTIES	SPECIFICATION	RESULTS
Appearance & colour		Comp A: Yellow liquid
		B : Dark brown liquid
Density, (gm/cc)	ASTM D 3800: 79	Comp A - 1.04 - 1.06
		Comp B - 1.22 - 1.24
Solids (%)	ASTM D 1010	Comp A - 100
		Comp B - 100
Viscosity @ 25°C (MPa-s)	ASTM D 1638:74	Comp A - 60 - 70
		Comp B - 150 - 250
Pot life of mix @20°C, min		70 - 90
Hardness, Shore D	ASTM D 2240	60 - 80 A
Tensile strength, (N/mm²)	ASTM D 638	2-2.5
Relative elongation (%)	ASTM D 638	60 - 80
Adhesive strength (N/mm <sup>2</sup> )		> 1.8
Chemical Resistance		Resistant to organic sol- vents, mild alkals/acids
Application Temparature		5°C - 40°C

### Packing

5 Kg

# Coverage / Usage

Coverage varies depending on porosity of the substrates.

# Shelf Life & Storage

Shelf life is 24 months from the date of manufacturing. Store in a cool & dry place in unopened condition.



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# Health & Safety Precautions

- Provide adequate ventilation in volume & pattern in working area.
- Wear protective clothing, safety shoes and gloves during the application of the material and when cleaning the equipment.
- The use of a suitable skin care cream is recommended. In case of contact with skin wash with soap and water.
- In case of contact with eyes rinse immediately with an eye bath of water and seek medical advice at once.

# Other Products Categories available

Dr. Fixit brings the widest range of Construction Chemicals

- Waterproofing
- Tile Fixing
- Sealants
- Industrial Floorings

- Building Repairs
- Coatings & Paints
- Concrete Admixtures
- Grouts & Anchors



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Construction Chemicals Division Ramkrishna Mandir Road Post Box No. 17411 Andheri (E) Mumbai 400059 INDIA Tel +91-22-2835 7000 • Fax +91-22-2835 7008 website www.doctor-fixit.com • E-mail drfixit@pidilite.com **Toll Free No.: 1800-22-5502**  DISCLAIMER The product information & application details given by the company & its agents has been provided in good faith & meant to serve only as a general guideline during usage. Users are advised to carry out tests & take trials to ensure on the suitability of products meeting their requirement prior to full scale usage of our products. Since the correct identification of the problems, quality of other materials used and the on-site workmanship are factors beyond our control, there are no expressed or implied guarantee / warranty as to the results obtained. The company does not assume any liability or consequential damage for unsatisfactory results, arising from the use of our products.