

Dr. Fixit PU Injection Foam 400



POLYURETHANE INJECTION FOAM RESIN

Description

Dr. Fixit PU Injection Foam 400 is Polyurethane Foam Injection Grout to stop active water leakages.

Typical Applications

Dr. Fixit PU Injection Foam 400 is used as a injection resin for

- o Concrete, brick and natural stone building & heavy concrete structures.
- o Bridges.
- o Tunnels, underground structures & hydraulic engineering.
- o Shaft constructions.

Features

- o Shrink free -100 % solid system (solvent free), without shrinkage after curing.
- o Expansion - After reaction with water expands 40 times of its volume thus completely fills the cracks.
- o Toxicity - Fulfills the requirements of contact with drinking water & CFC free hence no air pollution.
- o Compatibility - Compatible with concrete, steel, foils, cable coatings and solvent-free injection materials based on polyurethane or epoxy.
- o Versatile application - Used as a waterproofing & repair work.

Packaging

4 kg (supplied with 0.2 kg Accelerator)

Method of Application

1 PREPARATION FOR GROUTING WORK

- o Prior to the injection procedure, the nature of the building structure, cracks, the hydraulic and hydrostatic conditions, the water quality, etc. must be examined. Special attention should be paid to crack characteristics such as their course, width, state, crack edge and the crack accessibility.
- o The positioning of drill-holes and the drill-hole diameter depends on the results of these examinations. When installing the drill-hole packers, make sure that the injection hose rests comfortably on the jerk or button head fitting. The packers must be fastened tightly in the drill-holes. Measures may be necessary to reduce the flow rate and prevent the filling material from being washed out of the solarium at high flow rates (e.g. relief drillings, installation of wooden blocks, etc.).

2 INJECTION PROCEDURE

- o Inject Dr. Fixit PU Injection Foam 400 by means of a single compressor pump.
- o For faster rate of foam generation with water, mix supplied accelerator with Dr Fixit PU Foam Injection 400, prior to injection.
- o Ensure PU Injection Foam 400 is without any residues from cleaning agents or other foreign matter while injection.
- o The material is sensitive to moisture, hence ensure that any contact with water (e.g. rain) must be avoided. Use the mixed material immediately; otherwise high air humidity may cause skin formation on the surface. Close the pack if not in use.
- o The injection pressure (starting at approx. 20 bars) depends on the nature of the building, the hydraulic and hydrostatic conditions and the desired filling level. Carry out the injection at intervals so that conclusion can be drawn from the reaction of the material (surface emergence, etc.) as to whether to continue or to stop the injection process.
- o Dr. Fixit PU Injection Foam 400 can be applied at temperatures > 5°C. Best results are achieved at an initial material temperature of 15-25°C. Higher initial temperature accelerates the rate of reaction.
- o Immediately after the injection of Dr. Fixit PU Foam Injection 400, secondary crack injections can usually be carried out via the same drill-holes. If the secondary injection is carried out several hours later it may be necessary to install new packers in different positions.



3 FINISHING

After completion of Dr. Fixit PU Injection Foam 400, remove the packers and close the drill-holes with Dr Fixit Epoxy Putty.

4 CLEANING

- Clean the equipments thoroughly with Rok Thinners No.1 if any time work is interrupted for a longer period and after use.
- Provide adequate ventilation during the cleaning process.

Precautions & Limitations

- The safety regulations of the industrial trade associations and the safety data sheets are to be observed at all times when working with Dr. Fixit PU Injection Foam 400.
- All safety data sheets must be accessible to all persons responsible for occupational safety, health protection and the handling of materials.
- Do not allow the material to enter drains or soil in an unmixed state.

Technical Information (Typical Properties @ 25± 2°C)

PROPERTIES	SPECIFICATION	RESULTS
Type of material		PU injection foam resin
Density, g/cc		1.0 ± 0.05
Colour		Brown clear liquid
Viscosity, cPs	ASTM D 1638-74	200
Expansion in vol.		Up to 40 times without counter pressure
Reaction Time with Water		Within 60 secs
Application temperature		> 5°C (building component, material)

Storage

When stored in dry conditions in original unopened packaging this product has a shelf life of 12 months. Storage above 35°C and high humidity (above 50 %) will reduce shelf life and product performance.

Health & Safety

Wear protective clothing, safety-shoes and gloves during the application of the material and during equipment cleaning. 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 water and seek medical advice at once.



Pidilite MEA Chemicals L.L.C offers a wide range of Structural Protection and Waterproofing systems:



WATERPROOFING



CONCRETE &
STRUCTURAL REPAIR



CRACKFILL &
SEALANTS



BONDING AGENTS



SURFACE PLASTERS



GROUTS & ANCHORS



MORTARS



MARBLE & STONE
PROTECTION



PERFORMANCE
FLOORING



UNDERLAYMENTS



SPECIALITY
CONSTRUCTION
PRODUCTS



TILE ADHESIVES
& GROUTS

CONCRETE & STRUCTURAL REPAIR

Dr. Fixit PU Injection Foam 400

PU Injection Foam 400 23/12/20



Pidilite MEA Chemicals LLC

PO Box 120657

Dubai, United Arab Emirates

T +971 4 884 9880 F +971 4 884 9879

Web: www.pidilitemea.com

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.