Dr. Fixit PU Injection Foam 400

SINGLE COMPONENT FOAM INJECTION GROUT TO STOP Drip LEAKAGES POLYURETHANE INJECTION FOAM

Description
Dr. Fixit PU Foam Injection 400 is Single Component Foam Injection Grout to Stop Drip Leakages. Polyurethane Injection Foam.

Typical Applications
Dr. Fixit PU Foam Injection 400 is used as a injection resin for
- Concrete, brick and natural stone building & heavy concrete structures.
- Bridges.
- Tunnels, underground structures & hydraulic engineering.
- Shaft constructions.

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

Packaging
4 kg

Method of Application

1 PREPARATION FOR GROUTING WORK
- 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.
- 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
- Inject Dr. Fixit PU Foam Injection 400 by means of a single compressor pump. Make sure that only pure Dr. Fixit PU Foam Injection 400 without any residues from cleaning agents or other foreign matter is injected.
- 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.
- 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.
- Dr. Fixit PU Foam Injection 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.
- 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 the injection and curing process of Dr. Fixit PU Foam Injection 400 used for the secondary injection, remove the packers and close the drill-holes with mineral building materials.

4 CLEANING
- Clean the equipments thoroughly with Rok Thinners No.1 if any time work is interrupted for a longer period and after use.
- Use Rok Thinners No.1 for etching all material already cured.
- 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 Foam Injection 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

<table>
<thead>
<tr>
<th>PROPERTIES</th>
<th>SPECIFICATION</th>
<th>RESULTS</th>
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<tbody>
<tr>
<td>Type of material</td>
<td>1-comp. PU injection foam resin, 100% solvent free, fulfils the requirements of contact with drinking water (test certificate)</td>
<td></td>
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<tr>
<td>Density (20°C), g/cc</td>
<td>ASTM D 3800-79</td>
<td>1.0 ± 0.05</td>
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<tr>
<td>Colour</td>
<td>Brown clear liquid</td>
<td></td>
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<tr>
<td>Viscosity (23°C), cPs</td>
<td>ASTM D 1638-74</td>
<td>200</td>
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<tr>
<td>Expansion in vol.</td>
<td>Upto 40 times without counter pressure</td>
<td></td>
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<tr>
<td>Expansion begin (20°C)</td>
<td>15 sec after water contact</td>
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<tr>
<td>Application temperature</td>
<td>&gt;5°C (building component, material)</td>
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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.
- Incase of contact with eyes, rinse immediately with an water and seek medical advice at once.
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.

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

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