

CHEMfix PU4

Solvent Free Single Component Polyurethane Resin for Flexible Leak

Description

CHEMfix PU 4 is single component hydrophilic polyurethane based on TDI in combination with polyether polyols. This system reacts when it comes in contact with water and forms a flexible polyurethane seal.

Uses

- Solvent free, non-flammable.
- Excellent adhesion to most surfaces including concrete, brick, metal, plastic, fiber glass, ceramics etc.
- Resistant to most organic solvents, mild acids and alkalis.
- Rapidly forms a high resilient flexible seal that allows movement to the crack, fracture or joint, cavity etc.

Typical Applications & Advantages

CHEMfix PU 4 is a hydrophilic prepolymer liquid that becomes hydrophobic after cure that stops water & forms a highly flexible seal that could be injected directly into a leaking crack fracture, joint or could be poured into the gaps to be sealed.

CHEMfix PU 4 will foam to expand and fill the void forming a tight, impermeable elastomeric seal, stopping the water flow.

Technical Support

CHEMfix provides a comprehensive technical support service to specifiers, end users and contractors and is able to offer on-site technical assistance

Instructions for Use

CHEMfix PU 4 can be injected by two methods.

1. Single piston pump that is equipped for high pressure. The resin will react with the water in the structure and rapidly expands & cure.
2. Twin piston pump: water/resin ratio can be varied to control the cure time.

TECHNICAL INFORMATION

| | |
|-------------------------|------------------|
| Appearance | : Yellow liquid |
| Specific Gravity | : 1.10 @25±2°C |
| Mixing Ratio | : 1 : 0.25 – 0.5 |
| CHEMfix PU4 | : Water |



Technical Datasheet

Test Data Table

A: test performed at 25C and 55% relative humidity.

| Ratio | Cream Time Seconds | Rise Time Seconds | Foaming Ratio | Gel Condition |
|-------|--------------------|-------------------|---------------|---------------|
| 1:1 | 40 | 98 | 3 | HR Foam |
| 1:2 | 35 | 90 | 2 | HR Foam |
| 1:3 | 35 | 110 | 4 | HR Foam |
| 1:4 | 15 | 120 | 7 | HR Foam |
| 1:5 | 30 | 150 | 6 | Tacky Foam |

Packaging & Storage

CHEMfix PU 4 is supplied in 2litres & 15liters units and it has a minimum shelf life of 8 months provided it is stored under cover, out of direct sunlight.

Health & Safety Precautions

CHEMfix PU 4 does not fall into the hazard classifications of current regulations. However, it should not be swallowed or allowed to come into contact with skin and eyes. Suitable protective gloves and goggles should be worn. Splashes on the skin should be removed with water. In case of contact with eyes rinse immediately with plenty of water and seek medical advice. If swallowed seek medical attention immediately – do not induce vomiting.

Important note

CHEMfix endeavors to ensure that the technical information contained herein is true, accurate and represents our best knowledge and experience. No warranty is given or implied, as **CHEMfix** has no control over the conditions of use and the competence of any labor involved in the application are beyond our control.

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