

REC PU INJECTION 008

HYDROPHOBIC POLYURETHANE INJECTION GROUT

DESCRIPTION

REC PU INJECTION 008 is a hydrophobic polyurethane grout supplied in a convenient, ready-to-use single component cartridge. It is designed for injection into concrete and other sound substrates to seal water-bearing cracks and joints and prevent water ingress. **REC PU INJECTION 008** is particularly suitable for small-scale repair applications where conventional polyurethane injection pumps and equipment are not practical or readily available. When injected into a water-bearing crack or joint, the grout reacts with the available water and expands to form a hardened polyurethane foam that provides a watertight seal. The cured material exhibits very little shrinkage and remains effective after the water source has subsided.

FEATURES AND BENEFITS

- Convenient single-cartridge application.
- Suitable for small repair works.
- Bonds to wet and dry substrates.
- Requires very little water to cure.
- Fast reaction time.
- Remains active when the water subsides.
- Very little shrinkage after curing.
- Excellent elongation to accommodate moving cracks and joints.

PRIMARY APPLICATIONS

REC PU INJECTION 008 is recommended for sealing:

- Leaking cracks and joints.
- Cracks in mines and tunnels.
- Basement walls.
- Sewers and manholes.
- Below-grade walls subjected to high water tables.

TECHNICAL INFORMATION

Typical Properties - Liquid	Results
Viscosity (25°C) (ASTM D 1638)	300 ± 100 cps
Specific Gravity	1.08
Physical State	Liquid
Color	Amber
Density (ASTM D 1622)	80 kg/m ³
Elongation (ASTM D 638)	140%
Tensile Strength (ASTM D 638)	25 psi (0.17 MPa)

PACKAGING

REC PU INJECTION 008 is supplied in cartridges and quantity is provided according to the Client's demand.

INSTRUCTIONS FOR USE

a. SURFACE PREPARATION

Clean the surface around the crack or joint so that the full extent of the defect is clearly visible. Using a wire brush or wire wheel on a grinder, vigorously clean the crack or joint to allow maximum penetration of the grout. Remove loose particles, dirt and other contaminants from the area. Where required, small pilot holes may be drilled directly into the face of the crack to facilitate insertion of the cartridge tip. Flush the crack or joint with water to remove dust and debris generated during preparation.

b. CARTRIDGE PREPARATION

Before dispensing, shake the **REC PU INJECTION 008** cartridge vigorously to ensure that any material that may have settled during storage is adequately redistributed.

c. PLACEMENT

Flush the crack or joint with water before dispensing. Do not remove the excess water, as **REC PU INJECTION 008** requires water to react. For vertical cracks, begin injection at the lowest point. For horizontal cracks, begin at either end. Insert the cartridge tip into the crack or joint. Apply slow and steady pressure to the dispensing tool. Allow the grout to enter the crack and displace the water within the crack. As the grout reacts with the water, it will begin to foam and travel along the crack. When the grout stops advancing, move the cartridge tip to the point where the grout movement stopped. Continue dispensing progressively until the entire crack or joint has been treated. Allow the injected material to cure. Once cured, **REC PU INJECTION 008** will form a hardened foam. Remove excess cured grout from the surface using a margin trowel or similar scraper. If required, a suitable compatible topical finishing compound may be applied over the repaired area.

d. PRECAUTIONS

- Colder temperatures will affect the viscosity and setting time of the product.
- Avoid exceeding 32°C when warming the product.
- Store material at room temperature.
- Protect the product from freezing conditions.
- Do not use contaminated or damaged cartridges.
- Clean tools immediately after use.

SHELF LIFE AND STORAGE

REC PU INJECTION 008 has a 1-year shelf life when stored in its original, unopened cartridge. Store the product at room temperature and protect it from freezing conditions. Keep cartridges sealed until ready for use and protect them from conditions that may adversely affect the product.

SAFETY PRECAUTIONS

Avoid contact with eyes and prolonged contact with skin. Avoid inhalation of dust during mixing. Always wear suitable protective gloves, eye protection and protective clothing. Use appropriate respiratory protection where dust generation cannot be adequately controlled. Do not eat, drink or smoke while handling the product. Wash hands thoroughly after use. In case of contact with eyes or skin, rinse immediately with plenty of clean water. If accidentally swallowed or if adverse symptoms occur, seek medical attention immediately.

QUALITY STATEMENT

All our products are manufactured to comply with our internal quality management system to ensure consistency and quality.

DISCLAIMER

The technical data presented in this Technical Data Sheet represent the supplied typical product data. Actual performance may vary depending on temperature, moisture availability, substrate condition, crack dimensions and application conditions. The applicator is responsible for determining the suitability of the product for the intended application and for following appropriate application procedures. This Data Sheet version is the latest one. The company may modify it without any prior notice. For more information, please contact the company's head office located in Lahore.

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