

REC PU INJECTION 010

FLEXIBLE WATER-SEALING TWO-COMPONENT POLYURETHANE INJECTION

DESCRIPTION

REC PU INJECTION 010 is a two-component flexible polyurethane injection resin with very low viscosity, designed for the durable sealing of cracks and joints in concrete and other sound substrates. **REC PU INJECTION 010** reacts in both wet and dry cracks and joints. When the material comes into contact with water, it reacts and expands. In the absence of water, the two components react with each other to form a flexible seal.

The product provides excellent adhesion to concrete and metal without the use of a primer. The curing process does not cause shrinkage. Once completely cured, the two-component PU resin does not dry out and is deemed to have no corrosive effect on metals. For optimum water-sealing performance in concrete structures, **REC PU INJECTION 010** may be combined with other water-reactive polyurethane foams to create a flexible polyurethane foam sealing system.

FEATURES AND BENEFITS

- Suitable for wet and dry cracks and joints.
- Very low viscosity for excellent penetration
- Suitable for injection into very fine cracks
- Does not require water to react
- Reacts with water and expands when water is present
- Forms a flexible seal in the absence of water
- Excellent adhesion to concrete and metal
- No primer required for adhesion to concrete and metal
- Curing process does not cause shrinkage
- Does not dry out after complete curing
- Deemed to have no corrosive effect on metals
- Suitable for elastic water sealing
- Suitable for injection hoses
- Can be combined with water-reactive PU foams where required.

PRIMARY APPLICATIONS

REC PU INJECTION 010 is suitable for:

- Injection in wet and dry structures.
- Injection of very fine cracks.
- Elastic water sealing of cracks and joints in walls.
- Elastic water sealing of cracks and joints in floors.
- Concrete constructions.
- Sewers.
- Injection hoses.

TECHNICAL INFORMATION

PROPERTIES	Component A	Component B
Viscosity (20°C) (ASTM D 1638)	78 mPa·s	76 mPa·s
Physical State	Liquid	Liquid
Color	Colorless	Dark brown

Density (ASTM D 1622)	1.009 g/ml	1.136 g/ml
Mixing Ratio	1	1
MIXTURE PROPERTIES		
Physical State	Liquid	
Color	Brown	
Viscosity (20°C)	78 mPa·s	
Density	1.076 g/ml	
Pot Life	12°C	25 °C
	150 minutes	90 minutes
Gel Time	10 Hours	6 Hours
Cure Time	7 Days	5 Days
Shore A Hardness (after 5 days at 25°C)	72	
Modulus of Elasticity (EN ISO 527, after 5 days at 25°C)	6.6 MPa	
Tensile strength (EN ISO 527, after 5 days at 25°C)	> 3 N/mm ²	
Elongation at break (EN ISO 527, after 5 days at 25°C)	128 %	
Glass Transition Temperature (EN 12614)	-35.2°C	
Injectability (EN 1771, 0.1 mm – 0.3 mm)	Dry Sand Column	Wet Sand Column
	Easy to inject	Easy to inject
Adhesion Strength (EN 12618-1) at 3°C	Dry Concrete	1.30 N/mm ²
	Wet Concrete	0.63 N/mm ²
	Sandblasted Metal Plate	3.59 N/mm ²

APPLICABLE STANDARDS

REC PU INJECTION 010 complies with BS 6920 – Effect on water quality.

PACKAGING

REC PU INJECTION 010 is supplied as a whole kit of 30 Kg of both components in 1:1 ratio and quantity is provided according to the Client's demand.

INSTRUCTIONS FOR USE

a. PRODUCT PREPARATION

Mix Component A and Component B in the 1:1. Inject the mixed material through a suitable injection pump within the applicable pumpable time. Alternatively, use a two-component injection pump with a volumetric ratio of 1:1. Ensure that the components are thoroughly mixed and that the injection equipment is suitable for two-component polyurethane resin.

b. INJECTION PROCEDURE

Prepare and clean the crack or joint to be injected. Install suitable injection packers or injection hoses according to the project requirements. The material may be injected into dry, damp or wet cracks. Mix Components A and B in the specified ratio. Begin injection using suitable two-component injection equipment. Maintain the injection process within the applicable pumpable time. Continue injection until the crack or joint is adequately filled and

sealed. Where required, the material may be combined with other water-reactive polyurethane foams to optimize water-sealing performance. Allow the material to cure according to the prevailing temperature and site conditions. Remove or finish injection packers as required by the repair system.

Note: Clean all equipment immediately after use.

SHELF LIFE AND STORAGE

REC PU INJECTION 010 has a 12-month shelf life after the production date when stored in the original, unopened and undamaged packaging.

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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RECKON CHEMICALS PRIVATE LIMITED
21 CCA, BLOCK B, KHAYABAN-E-AMIN, LAHORE
Tell: +92-42-35452620, +92-42-35230419
Web: www.reckonchemicals.com
Email: Info@reckonchemicals.com

