

RANSINJECT-2K

(TWO-PART POLYURETHANE RESIN GROUT) RECPI -506

OVERVIEW

RANSINJECT-2K is two part liquid polyurethane. When mixed in the proportion supplied they react to form a tough, slightly flexible resin. RANSINJECT-2K has a good adhesion to concrete and masonry and when injected into cracks it allows some movement without loss of bond.

PROPERTIES

- Low viscosity: Penetrates fine cracks and cavities.
- Good adhesion: Adheres strongly to dry or moist concrete.
- **Flexible:** Strong but flexible to withstand differential structural movement.
- **Tough:** Withstands high hydrostatic pressures.
- Impermeable: On curing it forms a hard mass impermeable to water.
- Suitable for use in high temperature conditions.

AREAS OF USE

Can be injected into cracks in concrete or masonry in dry or damp conditions to form an elastic seal. Caution must be exercised with cracks which are live or filled with dust, water or salts. Use with RANSINJECT-2K to seal cracks in wet conditions in basements, subways and tunnels.

Water stop system for running water in –

Defective concrete – (crack & honeycomb)

Concrete joints

Drinking water tanks & reservoirs

Waste water tank

Sewers, manholes, utility boxes, etc.

Dams & canals

Tunnels

Brick / stone masonry

INSTRUCTIONS FOR USE

☐ Pipe intrusions

☐ Soil stabilization

The application temperature should be between 5°C to 45°C. Application procedures may vary slightly depending upon site conditions. The general recommended guidelines for the application of the system are as follows:

Surface Preparation:-

Care must be taken to provide a clean and sound surface for bonding and injecting.

- 1. Remove heavy deposits of grease and dirt by scrubbing with detergent solution and washing with plenty of clean water to ensure complete removal of the detergent. Dirt alone may be removed with wire brushes or similar mechanical means.
- 2. Remove deteriorated concrete, laitance and paint. The best treatment is grit blasting with sand, steel shot or a proprietary abrasive. Where grit blasting is impracticable, use rotary wire brushes.
- 3. Blow the cracks and treated surfaces with oil free compressed air to ensure complete removal of all dust and loose particles. Ensure that wet surfaces are blown dry.

In the presence of running water, the flow must be stopped by injecting RANSINJECT-2K which produces rapid setting foam. When the flow of water is stopped the cracks are re-injected with RANSINJECT-2K.

The surface of the crack must be sealed and injection nipples bonded in place before **RANSINJECT-2K** is injected using polymer mortar.

Mixing of RANSINJECT-2K:-

Add the hardener component to the base components and mix thoroughly until a uniform colour is achieved.

Application of RANSINJECT-2K:-

Immediately after mixing, apply the compound to the surface cracks. Overlap the cracks on both sides by 15 - 20mm. In general aim to form a band of

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material 30-40mm width and 2 - 3 mm thick. Use the material to bond on injection nipples using locating pins to ensure correct sitting. Depending on the width and depth of the cracks the distance between nipples should be 200 to 500mm. Fit nipples to both sides of a wall that is cracked all the way through, those at the back should be midway between those in front. Take care not to block the nipple holes with polymer mortar.

Mixing and application of RANSINJECT-2K

Application of the injection system may be commenced as soon as the Polymer mortar has cured (at least 8 hours at 350C). This will be extended at lower ambient temperatures. Mix the entire contents of the base and hardener components together until the liquid becomes clear. The product is applied by standard resin injection equipment. The injection pressure should be at least 0.4N/mm2 (4 bar).

PRECAUTION:

Mix only the required quantity of material, which can be utilized within stipulated pot life to avoid solidification. Wash all the tools and tackles with industrial solvent immediately after the application is completed.

HEALTH & SAFETY

Avoid prolonged contact with eyes and skin. For detailed information refer to relevant material safety data sheet.

PACKGING & STORAGE

RANSINJECT-2K is packaged in 20 Kg Pack, and customize as per client requirements. Store containers in a clean dry area protected from direct sunlight and extreme heat and cold. Unopened containers can be stored for 6 months.

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TECHNICAL

Prod	uct Dual Component Pol	Dual Component Polyurethane Grout.			
Appearar	nce Brownish & Clear Liq	Brownish & Clear Liquid			
Specific Grav	ity 1.0	1.0			
Viscosity at 20	0°C 3 Poise				
Cure properties (Tropical Grade)	Temperature	25°C	35°C		
		35Min	20Min		
	Reaction Time	95Min	55Min		
Application temperate	ure				
rar	nge +5°C to 35°C.				
Shelf L	ife 6 Month if unopened	Storage Conditions	Keep dry and away from extremes of he	at	

PICTURES/IMAGES AT GLANCE





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