
USED FOR SEALING LEAKAGES STOP WATER-CUT OFF SYSTEM
Modified PU Resin Grout (Resin mix with Accelerator)

USES **Inject Seal 2K**, provides sealing leaking course to stop water. It can be inject direct to reinforced concrete structural of any thickness, for filling of large voids such as rock fissure, crushed fault, and gravel layer, joint or cracks in reinforcement concrete. Or to those cavity wall and slab where no damp proof course exists with has failed. For Water Reservoirs, Dams, Under Ground Basement Car Parks, Swimming Pools, Bath Room Slab, Garden Roof Slab, and Power Plants etc.

ADVANTAGES

- * Low Viscosity.
- * Semi-Rigid Foam System
- * Non Toxic Once Is Cured Foam.
- * 2 Times Above Of Volume Expand.
- * Excellent Density Foam Once Expanding.
- * Excellent Bonding To Structure & Permanent Sealing.

FORM SUPPLIED Solvent-free liquid, when the **Inject Seal 2K** resin grout will start reacting water, rising damp or moisture, it comes to expand as a polyurethane foam. It's will also react with sea water to expand.

DESCRIPTION **Inject Seal 2K** ensures good penetration in capillary pores and a remarkable capacity to flow and adjust into remote cavities and cracks, so producing an absolute elastic seal. By virtue of it's flexibility anchors itself firmly in micro cracks and is capable of bearing differential movements of considerable magnitudes. On account of the excellent bonding properties, it achieves optimal damp proof and high resistance against periodical water pressure.

APPLICATION Drill 16mm diameter holes in the R.C Wall or Slab to predetermined depth and at 100mm -175mm, centers dependent on the thickness of wall or slab to be treated. Walls up to 3000mm thick can be treated from one side. Walls of greater thickness are treated from both sides or from one side by a series of injection at increasing depths. The holes should be drilled either horizontally into mortar bed joint to a depth of at least half but no more than two thirds the overall thickness of the wall, or at an angle of depression of 30 °C to 45 °C terminating in a mortar bed joint at the level of the required leaks or damp proof.

Inject the **Inject Seal 2K** polyurethane resin grout solution at pressure of 1000 to 3000 psi. Packers insert and fitted with an expanding rubber into drilled holes and injection is continued until the required volume has been injected. The volume to be injected will depend on the thickness of the wall, but will be a minimum of 1.5 liter with an average of 2.3 liter per meter run of 250mm-thickness wall and increased proportionately for thicker wall. Those areas have been treated must filling or patch back by cement grout at holes.

DURING REACTION It can penetrate into the void cracks line with width of 5 x 10 - 4 in.

REACTION TIME Depends on quantity of INJECT SEAL 2K Resin Grout which water reacting. Mean for both have mixed up.

Properties of Specification		<i>Cured Foam (Unconfined)</i>
Compressive Strength	340 psi (Note: Mix with silica sand)	
Flexural Strength	105 psi	
Tension Strength	65 psi air cured & water cured 55 psi	
Bonding Strength	Excellent bonding to structural	
Elongation at Break	5% [Semi-rigid Foam]	
Solid Volume	98.50%	
Expanding Volume	15-20 times	
Viscosity	at 25 °C	650 mPa.s
Density	at 25 °C	1.07 g/m ³ [±0.01]
Pot Life	at 25 °C	> 5 sec to 180 sec depend of Catalyst mix (Note: Max 3%)
Cure Time	at 25 °C	As pot life test method
Specific Gravity	1020 g/liter	
Flash Point	> 200 °C	
Tear Resistance	None	
Abrasion Resistance	None	
Fire Resistance	None	
Toxicity	Essentially non-toxic in cured foam	
Water Absorption	1% to 5%	
Coverage Thickness	No required	
Consumption	None	
Stability Under Heat	Minimum: 40 °C	Maximum: 65 °C
Glass Transition Temperature	Minimum: 15°C	Maximum: 60 °C
Application Temperature	Minimum: 5 °C	Maximum: 40 °C
Shore A Hardness	None	
Shore D Hardness	None	
Martens Dimensional	None	
Packing	25 kg/pail	

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