

USED FOR SEALING LEAKAGES STOP WATER-CUT OFF SYSTEM
For All Types of Joints, Expansion Joint, Construction Joint or Cold Joint
Modified Injection PU Resin Grout

- USES** **INJECT SEAL ME**, 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.**
 - ❖ **Very Flexible Foam Once Expanding**
 - ❖ **Excellent Bonding to Structures & Permanent Sealing.**
 - ❖ **Hammer Test, No Crack or No Crisp**
 - ❖ **Without Water – “Inject Seal ME” resin grout also will expand to a rigid foam, because the liquid resin is reacts with airtight and it will slowly expand at internal of cracks area and totally sealing off**
 - ❖ **Essentially “Non-Toxic” in cured foam**
- FORM SUPPLIED** Solvent-free liquid of Urethane Prepolymer, when the **Inject Seal ME**, 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 ME** 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.
- Injecting the **INJECT SEAL ME** polyurethane resin grout solution at pressure of 300 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.

Properties of Specification*Cured Foam (Unconfined)*

Isocyanate Value	16	(Urethane Prepolymer)
Compressive Strength	650 psi	(Note: Tested with silica sand + Resin)
Flexural Strength	780 psi	(Note: Tested with silica sand + Resin)
Tension Strength	450 psi	(Note: Tested with silica sand + Resin)
Bonding Strength		Excellent bond to structural
Elongation at Break		Flexible 25%
Solid Volume		97.5%
Expanding Volume		6 to 8 times
Viscosity	at 25 °C	550 (±25) mPa.s
Pot Life	at 25 °C	> 60 sec to 240 sec
Cure Time	at 25 °C	As pot life test method
Specific Gravity	at 25 °C	1.07 g/cm ³ [±0.01]
Flash Point		> 200 °C
Tear Resistance		Excellent on External/Internal Layer for Flexible Foam
Abrasion Resistance		10 sec/1000 cycle, peeling of on Top Surfaces
Fire Resistance	Gas °C Burning Test	Good Conditions of Class 0
Toxicity		Essentially non-toxic in cured foam
Water Absorption		0.1% to 2% depend of pressure capacity
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		Surroundings Semi-Flexible Rigid
Shore D Hardness		Surroundings Semi-Flexible Rigid
Packing		20 kg/pail & 25 kg/pail

Cured Foam / Tack Free

The reaction and set time of Inject Seal ME PU resin, is a function of both temperature and the concentration of Catalyst 2KP Accelerator in the blend. The following table shows the effect of Catalyst 2KP at different weight percentages at a temperature of 25 °C

Tested Item	Inject Seal ME Ratio: pbw* %	Catalyst 2KP Ratio: pbw %	Tack Free Minutes
1	99.50%	0.5%	20
2	99.00%	1%	5
3	95.00%	5%	2.5
4	90.00%	10%	1.8
5	85.00%	15%	0.7

Note: pbw* part by weight

Handling Precautions

For Health, safety and Environmental Recommendations, please consult and follow all instructions on the product Material Safety Data Sheet.

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