



Inject Seal[®] Advance

Polyurethane Injection Resin Grout Data Sheet

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 [One Component Hydraulic Resin Grout Type]

USES	INJECT SEAL ADVANCE , 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 Drink Tank, Reservoirs, Dams, Under Ground Basement Car Parks, Swimming Pools, Bath Room Slab, Garden Roof Slab, and Power Plants etc.
ADVANTAGES	<ul style="list-style-type: none">❖ Essentially “Non-Bacterial” when in cured foam, on Drink Water❖ Ultra High Flexible Foam Once Expanding❖ Low Viscosity.❖ Excellent Bonding to Structures & Permanent Sealing.❖ Hammer Test, No Crack or No Crisp❖ Without Water – “Inject Seal Advance” 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 [Non Contain of Phatela]
FORM SUPPLIED	Solvent-free liquid of Urethane Prepolymer, when the Inject Seal Advance , hydraulic 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 ADVANCE 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	<p>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.</p> <p>Injecting the INJECT SEAL ADVANCE 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</p>



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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		<i>Cured Foam (Unconfined)</i>
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		99.55%
Expanding Volume		6 to 20 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	1.14 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



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Packing	10 kg/pail

Cured Foam / Tack Free

The reaction and set time of Inject Seal Advance PU hydraulic resin grout, is a function of both temperature and the concentration of Water in the blend. The following table shows the effect of Water at different weight percentages at a temperature of 25 °C

Tested Item	Inject Seal Advance Ratio: pbw* %	Once Reaction with Water Ratio: pbw %	Tack Free Minutes
1	100%	1%	<20
2	100%	5%	<5
3	100%	10%	<2.5
4	100%	15%	<1.8
5	100%	20%	<1.5

Note: pbw* part by weight

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