

HYDROCRYL 2000

Polyurethane Injection Resin

DESCRIPTION

HYDROCRYL 2000 is a single component polyurethane resin which is designed for injection into voids and cracks to halt water ingress. It is mixed with the catalyst component, to achieve the desired reaction time. The resin cures quickly to form a semi-rigid closed cell polyurethane foam which will resist water ingress whilst remaining flexible for the lifetime of the structure.

USES

HYDROCRYL 2000 is used for sealing cracks and voids where water penetration is occurring. Applications include the grouting of tunnel segments, sealing of poly compacted concrete and filling of voids in substructures.

ADVANTAGES

- Solvent free.
- Low odour.
- Remains flexible once cured.
- Good chemical resistance.
- Controllable reaction time.
- Closed cell structure once cured.

Property	Value
Solids Content	100%
Flash Point	140°C
Viscosity @ 20°C	210 CPS
Density	1100kg/M ³

PROCEDURE

Surface Preparation: When injecting cracks, it is important to determine exact location of the water ingress. 14mm diameter holes should then be drilled so that the hole effectively intercepts the crack. Holes should typically be drilled at 200mm to 300mm centres along the length of the crack. An appropriate sized injection packer should be inserted into the holes an

tightened to an appropriate torque to prevent resin leakage during injection.

Mixing: HYDROCRYL 2000 should be mixed with the catalyst at the appropriate ratio depending on the desired reaction time. Mixing should be with a slow speed drill and mixing paddle and mixing should continue for 2 mins.

Application: HYDROCRYL 2000 should be injected using a single piston pump at a low pressure. Pumping should continue until the flow of resin stops; injection should then commence through the next adjacent packer. Allow the resin to cure for 24hrs before removing the injection packers and filling the injection holes with a suitable waterproof repair mortar.

Equipment Cleaning: Tools and equipment should be cleaned immediately using PREMCRETE CLEANING SOLVENT.

PACKAGING & COVERAGE

Pack Size: HYDROCRYL 2000 is supplied in 5kg and 25kg packs. The HYDROCRYL catalyst is supplied in 0.5ltr and 2.5ltr drums.

Yield: The coverage will vary depending on the void or crack being grouted.

STORAGE & SHELF LIFE

HYDROCRYL 2000 should be stored in clean dry conditions, when stored in unopened containers product will have a shelf life of 12 months.

HEALTH & SAFETY

See separate material safety datasheet.



Revision date: 23/1/23

REACTIVITY @ 20°C

Percentage Catalyst	Start Reaction	End Reaction	Foam Expansion
2%	1'20"	8'	X 20
3%	1'00"	6'30"	X 23
5%	1'45"	4'35"	X 27
10%	30"	2'10"	X 29