

Hydrophilic and solvent free low viscosity polyurethane injection resin for moving non-structural cracks.



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EN 1504-5

Concrete injection product
U (D1) W (3) (1/2/3) (5/30)

APPLICATIONS

- For sealing of water ingress between concrete tunnel segment joints.
- Screen injections behind tunnel segments.
- For sealing moving, leaking cracks.
- For waterproofing man and non-man accessible sewer pipes.
- For sealing of expansion joints.
- Used as a 1-component system for sealing wet, non-structural cracks.
- Used as a 2-component system with a 1:1 ratio water for sealing dry, moving, non-structural cracks.

HOW DOES PURINJECT 1C HYDROFOAM WORKS ?

PURINJECT 1C HYDROFOAM is designed for injection of joints or repairing leaks in concrete structures. In contact with water, it forms a flexible gasket in the crack or joint. Corrosive environments do not affect PURINJECT 1C HYDROFOAM. The system is ideal for movement of the substrate in excess of 10%. The resin expands and cures to a resilient, flexible closed-cell foam when in contact with water. In case of high volume water flow, PURINJECT 1C HYDROFOAM will not be easily washed out. After injection it will react with water and fill voids, cut off active water leaks, seal potential water leaks and stabilize coarse materials. PURINJECT 1C HYDROFOAM is designed to withstand wet-dry cycles and thermal movements. It cures to form a hydrophilic, flexible foam. Used as a 1 C system for injection into wet conditions or as a 2 C system in a 1:1 ratio with water as a second component for injection into dry cracks.

TECHNICAL DATA

PURINJECT 1C HYDROFOAM uncured		
Properties	Values	Norm
Solids	100%	EN ISO 3251
Viscosity (25°C)	≈ 400 mPa.s	EN ISO 3219
Density (20°C)	≈ 1,100 kg/dm ³	EN ISO 2811
Flash point	205°C	EN ISO 2719
Colour	Yellow brownish liquid	

PURINJECT 1C HYDROFOAM reacted	
Properties	Values
Curing time 1/1 water	Start 20 seconds End 3 minutes
Expansion factor 1/1 water	4V
Tensile strength (BS EN ISO 527-3)	0,58 N/mm ²
Elongation at break (BS EN ISO 527-3)	150%

Remark: mechanical properties are given as an indication and can vary according to the jobsite and specific injection conditions.

CHARACTERISTICS AND BENEFITS

- Solvent free non-flammable system, REACH compliant.
- Resistance to thermal movement, excellent wet-dry and freeze-thaw cycles without degradation.
- High tensile and bonding strength.
- Excellent chemical resistance.
- No ADR transport.

OPERATIONAL DATA

PURINJECT 1C HYDROFOAM can be used as a 1-component system for injection into wet conditions or as a 2-component system with a 1:1 ratio water for injection into dry cracks.

CONSUMPTION

Subject to estimation by site engineer or operators. Depends on depth and width of the cracks and voids.

PACKAGING

- 25 kg in metal drums or plastic jerrycans

STORAGE

PURINJECT 1C HYDROFOAM is sensitive to humidity. Store away from frost and heat in a dry area. Optimal storage temperature is between 5°C and 30°C. Open cans should be finished as soon as possible. Approximate shelf life is 1 year.

SAFETY AND HEALTH PRECAUTIONS

For more information, consult the safety data sheet.