



SILJEC-HYDRO[®]

Solvent-free PU Hydrophilic
Injection Resin

DESCRIPTION

SILJEC-HYDRO® is a hydrophilic and solvent free, low-viscosity polyurethane injection resin for moving non-structural cracks. **SILJEC-HYDRO®** 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.

APPEARANCE 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.

CONCEPT

SILJEC-HYDRO® 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 **SILJEC-HYDRO®**. 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, **SILJEC-HYDRO®** 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. **SILJEC-HYDRO®** is designed to withstand wet-dry cycles and thermal movements. It cures to form a hydrophilic, flexible foam. Used as a 1K system for injection into wet conditions or as a 2K system in a 1:1 ratio with water as a second component for injection into dry cracks.

APPLICATION

- 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.

ORDINARY PACKAGING

- 1 pallet = 42cans(25kg steel can)
- 1 pallet = 48jerrycans(20kg plastic jerry can)

STORAGE

SILJEC-HYDRO® 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.

CONSUMPTION

Subject to estimation by site engineer or operators. Depends on depth and width of the cracks and voids. Please contact JV Polymers team.

TEST DATA

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

Test Item	Result	Test method
Solids contents	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	107° C	EN ISO 2719
Colour	Yellow brownish liquid	
Curing time 1/1 water	Start 20 seconds End 3 minutes	
Expansion factor 1/1 water	4V	

SAFETY PRECAUTIONS

As a general rule, avoid skin and eye contact by wearing overalls, gloves, goggles, and mask etc. Spillage on skin should immediately be removed by thorough washing with water and soap or suitable cleaner. Eye should be flushed with fresh water. Avoid inhalation of vapors and paint mist by wearing suitable mask. In the event of ingestion and eye contact, seek medical attention immediately. Coating must be carried out in well ventilated area. This product contains flammable materials and should be kept away from the sparks and open flames, smoking in the area should not be permitted. Local safety regulations should be followed.

Customer Service

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Technical Service

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