

## CRYST INJECT RESIN<sup>®</sup>

Article-No.: 01200

### SEMI-RIGID POLYURETHANE INJECTION RESIN SYSTEM FOR PERMANENT WATERTIGHT SOLUTION

#### DESCRIPTION

CRYST INJECT RESIN<sup>®</sup> is a two-component (component A+B), phthalate-free, very low viscous, and elastic polyurethane injection resin. Due to the very low viscosity, it leads to very deep penetration into hairline cracks and fine structures. CRYST INJECT RESIN<sup>®</sup> is designed to seal moist and dry cracks permanently, making a watertight system that has a limited volume expansion in contact with water/humidity. CRYST INJECT RESIN<sup>®</sup> is not used against flowing water.

#### FEATURE AND BENEFITS

- Environmentally friendly.
- Low viscosity helps ensure complete penetration inside cracks.
- Used as a one-component system.
- Elastic and permanent seal helps to absorb limited movements.
- Phthalate and solvent-free.
- Ideal for potable water.
- Good chemical resistance.
- Good bonding to moist and dry surfaces.
- Can be injected through a 1K or 2K component pump.

#### FIELD OF APPLICATION

CRYST INJECT RESIN<sup>®</sup> can be directly used to permanently seal cracks, voids, and joints in concrete structures, brickwork, and natural and artificial stonework. If the structure has water leakage, it is recommended to inject with CRYST INJECT FOAM<sup>®</sup>. Applications include tunnels, basements, diaphragm walls, manholes, reservoirs, water tanks, pools, etc.

#### TECHNICAL DATA

##### Material properties

	Component A	Component B	
Base:	resin	catalyst	
Form:	liquid	liquid	
Appearance:	transparent	brown	
Density:	1.03 g/cm <sup>3</sup>	1.23 g/cm <sup>3</sup>	DIN 53479
Viscosity	100-300 mPas	50-150 mPas	EN ISO 3219

##### Standard mix ratio properties

Elongation:	approx. 45% DIN EN 53 455
Mixed viscosity:	100-300 mPas
Mixed density:	1.09 kg/l
Pot life:	approx. 1 hours in closed condition
Full cure:	7 days
Consumption:	depends of cavity occurrence
Application temperature	+8°C up to +40°C

#### RECOMMENDED TOOLS

Single-component injection pump, gloves, safety glasses, CRYST Packer CRYST MORTAR, CRYST CLEANER.

## DIRECTION FOR USE

Before starting the injection procedure, an analysis of the waterproofed subject is required. On the hand of analysis results (water situation, crack properties, crack width, cavity occurrence, water temperature, etc.) Substrates having water leakage or seepage should be injected first with CRYST INJECT FOAM® to stop the water leakage. Substrates with moist or damp cracks can be directly injected with CRYST INJECT RESIN®. For crack and concrete joint Injection packers must be installed in a 45° direction. The packers must be set and tightened by using the right tools, so they do not release even at high injection pressures. The distance of the drilled holes depends on the width of the crack.

The CRYST INJECT RESIN® components are supplied and ready to use. So will be injected through a 1K injection pump. The material (components A + B) should be mixed in the predetermined mixing ratio and filled in the injection device (material hopper) afterward. Use only the required quantity of this mixture.

The ready mixed material should be injected within the specified processing time/pot life. CRYST INJECT RESIN® has to be injected as long as the crack or concrete joint is filled with resin, begin the injection at the lowest point of the crack. Depending on cavity occurrence it can take seconds or minutes. The injection pressure can rise depending on the site situation. Change to the next installed packer after the injection material came out of the next packer, of the crack surface, or out of the joint. Continue the procedure until the crack is completely filled with CRYST INJECT RESIN®.

After complete curing (reaction) of CRYST INJECT MULTI® Fill and seal all holes left by the injection packers with CRYST MORTAR®. Depending on cavity occurrence the mentioned material consumption can change.

Tools and equipment should be cleaned immediately after use by CRYST CLEANER. Cured material can only be removed mechanically.

## PACKAGING

CRYST INJECT FOAM® is available in  
Component A : 10 ltr metal canister  
Component B : 10 ltr metal canister

## BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

## STORAGE & SHELF LIFE

Keep CRYSTARM products must be stored dry and at a temperature of no less than 45°F (7°C). 15 months is the maximum shelf life when stored under proper conditions in original unopened packaging.

## SAFETY HANDLING

Take adequate precautions, such as wearing protective gloves and using breathing apparatus if applied in enclosed environments. If contact is made, flush areas with lots of water. For further information please refer to Safety Data Sheet. KEEP OUT OF REACH OF CHILDREN.

## CRYSTARM®

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**WARRANTY:** The Manufacturer warrants that the products manufactured by it conform to the formulation standards contained in all components in their proper proportion and are free from material defects. If any of the products are found to be defective the subsequent liability to The Manufacturer shall be limited only to the replacement of the product proven to be defective and shall not be liable for any other claim or for incidental or any consequential damages that may arise directly or indirectly with the said defective product. The user shall determine the suitability of the product for its intended use and the user assumes all liability in connection therein and the manufacturer shall not be liable save for terms of this warranty.