

PRODUCT FAMILY

Specialty Products

MCT

MC-Leak Inject

Semi-flexible water-sealing injection resin

Low-viscosity, single-component MDI-based polyurethane injection resin that reacts with water to form a semi-flexible hydrophobic foam for sealing leakage paths.

Resin density	Packaging	Free expansion	Colour
~ 1.127 kg/L	5 kg resin + 0.46 kg catalyst	1700% - 2200%	Light brown

Description

MC-Leak Inject is a low-viscosity, single-component MDI-based water-reactive polyurethane injection resin. It is used to seal water leakage through cracks in walls, floors and concrete construction. On contact with water it forms a semi-flexible hydrophobic foam that blocks leakage paths and water penetration.

Application

Water sealing of cracks and leakage paths in walls, floors and concrete construction where water leakage or penetration is present.

MCT TECHNICAL DATA

MC-Leak Inject

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Properties

- The semi-flexible foam absorbs movement of the crack.
- Fast-reacting semi-flexible PU foam used as a water stop for sealing leakage and water penetration.
- Penetrates deep into fine cracks.
- Reacts with water and forms carbon dioxide gas; the resulting swelling pressure expands the resin into a foam that seals water penetration.
- Free expansion: 1700% - 2200%.
- Does not shrink after curing.
- Excellent adhesion to mineral construction materials such as concrete, cement, brick and metal, and to certain plastics.
- Reaction speed can be controlled by varying the amount of catalyst.
- The source states that the resin foam is environmentally friendly and does not contain toxic substances.
- The source states chemical resistance against water, weak acids and alkali, mineral oils, fungus and bacterium, groundwater, seawater and petroleum products.

MCT TECHNICAL DATA

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Technical data

Colour	Light brown
Free expansion	1700% - 2200%
Density - resin	~ 1.127 kg/L
Density - catalyst	~ 0.921 kg/L
Dry substance	100%

Viscosity

Temperature	Resin	Catalyst
15°C	290-300 mPa.s	14 mPa.s
20°C	260 mPa.s	11 mPa.s

Reaction time

Temp.	1.5 kg	1.875 kg	2.25 kg
10°C	1 min 36 sec	1 min 33 sec	1 min 25 sec
15°C	1 min 26 sec	1 min 16 sec	1 min 14 sec
20°C	1 min 24 sec	1 min 10 sec	1 min 07 sec

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Processing

- Add 6-9% MC-Leak Inject Cat and mix thoroughly.
- Inject the mixture with a single-component pump - manual, electric or pneumatic - into the crack.
- MC-Leak Inject polymerizes into a semi-flexible hydrophobic foam.

Packaging

MC-Leak Inject: 5 kg. MC-Leak Inject Cat: 0.46 kg.

Shelf life / storage

- Original packaging: 6 months.
- Once opened, the resin has a limited shelf life. Avoid contact with water and moisture.

Cleaning

Clean the pump and equipment whenever there is a stop of more than 15 minutes.

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Precautions and safety

- Avoid contact of the product with skin and eyes.
- Wear safety glasses, gloves and suitable work clothing.
- If the product contacts the eyes, wash with plenty of water and seek medical attention.
- If the product contacts skin, wash with plenty of water.
- Absorb spilled resin with sand and dispose of it according to local regulations.
- The product reacts with water; if contaminated by moisture, CO₂ gas pressure may form inside containers.

