

# PC® LEAKINJECT UNI 6816 E

# TECHNICAL DATA SHEET

Low viscous, one-component, MDI-based, polyurethane injection resin for water sealing cracks, big gaps, or water leaks with high flow or pressure. Reacts with water, forming a semi-rigid foam.



#### APPLICATIONS

- Water sealing of cracks and big gaps in walls, floors, concrete constructions, underground structures, ...that are not liable to settings and movements.
- Used as waterstop for leakages or active water leaks with high flow and/or high hydrostatic pressure.

### PROPERTIES

- Reacts with water.
- Forms semi-rigid foam.
- Penetrates deep in fine cracks.
- Does not shrink after curing.
- Free expansion: min 1700 % to 2200 %.
- Good chemical resistance.
- Excellent adhesion on mineral building materials (concrete, cement, brick), metal and certain plastics.
- The reaction speed can be adjusted by varying the amount of catalyst.





#### PACKAGING

RESIN	CATALYST
25 kg	2.3 kg

#### **TECHNICAL DATA (Typical values)**

Free expansion 1700 % - 2200 %	Colour	Dark brown
	Free expansion	1700 % - 2200 %

	RESIN	CATALYST
Viscosity (20 °C)	95 mPas	45 mPas
Density (20 °C)	1.10 - 1.20 g/cm <sup>3</sup>	+/- 0.923 g/cm <sup>3</sup>

## **REACTION TIMES AT 20 °C**

% CATALYST	START REACTION	END REACTION
2 %	44 sec	3 min 30 sec
6 %	19 sec	1 min 17 sec
9 %	13 sec	54 sec

The reaction time is controlled by adapting the amount of catalyst. Method: 65 gr resin + catalyst + 12 gr water



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#### PROCESSING

# PREPARATION

- The PC® Leakinject Uni 6816 E components are supplied ready to use. .
- The reaction time depends on the temperature of the material, the structure • of the construction and the possible amount of water present. Higher temperatures will speed up the reaction time and lower temperatures will slow it down.
- Add the catalyst to the resin, according to the desired reaction time, and mix thoroughly.
- Inject the mixture with a single component pump (manual, electric, pneumatic).
  - Verify that pump and equipment are clean and that no residues from previous injection works are left.
- Check the quality of the concrete, as injection implicates pressure. .

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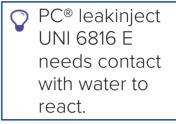


#### 2 DRILL HOLES AND PACKERS

- Determine the type and dimensions of the packers according to the pump type, plate thickness and injection type.
- Make the crack visible down to the structural concrete so that the drilling patterns can be determined.
- If reinforcement steel is present, try to locate it and plan the drilling pattern so that the reinforcement is not pierced.
- Drill the holes at an angle of about 45° or less and in the direction of the crack. Make sure the bore crosses the crack.

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- The distance of the drilled holes depends on the width of the crack.
- Place the packer in the drill hole.



### 3 INJECTION POLYURETHANE RESIN

- Prepare the pump to start the injection.
  - The injection pressure varies depending on the structure and size of the crack.
- Begin the injection at the lowest point of the crack.
- Continue to inject until the resin leaks from the adjacent packer(s). This is necessary to achieve an even material distribution.
- Stop pumping, disconnect and continue to the next packer.
- Continue the procedure until the crack is completely filled.

### 4 CLEANING

- Clean the pump and equipment with PC<sup>®</sup> Ecoclean every time there is a stop of more than 15 minutes, and at the end of the injection works.
- When the cleaning agent comes out of the pipes, flush with a sufficient amount of cleaning agent.
- For the removal of cured polyurethane residues, use PC® PU cleaner.



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#### **STORAGE**

#### Storage:

In a dry place between +10 °C and +30 °C.

#### Shelf life:

12 months after production date in the original, unopened and undamaged packaging. Once opened, the operating life of the product reduces very quickly.

#### PRECAUTIONS AND SAFETY RECOMMENDATIONS

- Wear safety glasses, gloves and protective clothing. Avoid contact with skin . and eyes.
- In the event of contact with eyes: rinse thoroughly with clear water and consult a doctor.
- In the event of skin contact: rinse abundantly with water.
- Mix residues and spilled resin from PC® Leakinject Uni 6816 E with sand and dispose of in accordance with local regulations.
- The resin can react with water or atmospheric humidity to form CO<sub>2</sub> gas. This can build up pressure in a closed package or container that has already been opened.
- Consult the SDS sheet.

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