



## PC® LEAKINJECT UNI 6816 E

### Semi-flexible water sealing injection resin

#### 1. Description

Low viscosity single component MDI-based water reactive polyurethane injection resin. **PC® Leakinject Uni 6816 E** reacts with water forming a semi-flexible hydrophobic seal.

#### 2. Application

Water sealing of cracks and big gaps in walls, floors, concrete constructions, ... which are not liable to settings and movements. Is a fast reacting semi-flexible PU foam, used as a waterstop for the sealing of leakages and water penetration.

#### 3. Properties

- **PC® Leakinject Uni 6816 E** forms a semi-flexible sealing with high strength in the crack or joint.
- Is a fast reacting semi-flexible PU foam, used as a waterstop for the sealing of leakages or to stop active water leaks with a high flow and/or high hydrostatic pressure.
- Penetrates deep in fine cracks.
- Reacts with water and forms carbondioxyde gas. This gas produces a swelling pressure and the resin expands to foam sealing all water penetration.
- Free expansion: min. 1700 % - 2200 %.
- Does not shrink after curing.
- Excellent adhesion to mineral construction materials (such as concrete, cement, brick), metal and certain plastics, ...
- The reaction speed can be controlled by varying the amount of catalyst.
- The **PC® Leakinject Uni 6816 E** foam is chemically resistant against water, weak acids and alkali, mineral oils, fungus and bacteria, ground water, sea water and petroleum products.

#### 4. Characteristics

- |                     |   |
|---------------------|---|
| • Colour:           | Dark brown  |
| • Free expansion:   | 1700 % - 2200 %                                   |
| • Density:          | Resin: 1,10 – 1,20 kg/l<br>Catalyst: ~ 0,923 kg/l |
| • Viscosity (20°C): | Resin: 95 mPas<br>Catalyst: 45 mPas               |

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- Reaction time: 65 g resin + catalyst + 12 g water

	% Catalyst	Start reaction	End reaction
<b>10° C</b>	2 %	55"	4'18"
	6 %	26"	1' 38"
	9 %	20"	1'10"
<b>15° C</b>	2 %	46"	4'06"
	6 %	21"	1'34"
	9 %	18"	1'15"
<b>20° C</b>	2 %	44"	3'30"
	6 %	19"	1'17"
	9 %	13"	54"
<b>25° C</b>	2 %	38"	3'15"
	6 %	18"	1'16"
	9 %	12"	51"

- Shelf life: 12 months after production date in original unopened and undamaged packaging, stored in a dry place with temperatures between 10°C and 30°C. Once the packaging is opened, the shelf life of the product diminishes quickly and the product should be consumed as soon as possible.

## 5. Processing

Add PC® Leakinject Uni 6816 E Cat and mix thoroughly. Inject the mixture with a single component pump (manual, electric, pneumatic) in the crack. Because of the low viscosity the resin will penetrate deep into the cracks. **PC® Leakinject Uni 6816 E** polymerises into a semi-flexible hydrophobic foam.

## 6. Packaging

**PC® Leakinject Uni 6816 E:** 25 kg  
**PC® Leakinject Uni 6816E Cat:** 2,3 kg

## 7. Cleaning

Clean pump and equipment every time there is a stop of more than 15 minutes with PC® Ecoclean, or whenever necessary and at the end of the injection. Flush with an extra ¼ litre of PC® Ecoclean.

## 8. Precautions and security measures

- Avoid contact of the product **PC® Leakinject Uni 6816 E** with the skin and eyes.
- Wear safety glasses, gloves and an overall.
- In case of contact with the eyes: wash with lots of water and seek medical attention.
- In case of contact with the skin: wash with lots of water.
- Absorb spilled resin **PC® Leakinject Uni 6816 E** with sand and dispose according to the local regulations .



- Reacts with water. If contaminated by moisture, may form CO<sub>2</sub> gas pressure in containers.
- For more information: see Material Safety Data Sheet.