


 0749 / EN 1504-5
 U(S1)W(8)(3)(5/30)

 TECHNICAL
 DATASHEET

PC[®] LEAKINJECT HYDROGEL 6880

Single component, flexible, water sealing injection resin

* Without catalyst *

1. Description

Low viscous, single component, hydrophilic, MDI-based, injection resin. **PC[®] Leakinject Hydrogel 6880** doesn't need the addition of a catalyst. The product reacts with water and forms a flexible, closed cell foam. This waterproofing resin can be injected pure, directly into a leaking crack, fracture or joint or it can be injected mixed with water (for example in a ratio 1/1). After injection has taken place, the **PC[®] Leakinject Hydrogel 6880** will foam to expand and fill the void, forming a tight, impermeable polyurethane seal.

2. Applications

PC[®] Leakinject Hydrogel 6880 can be used as a waterstop for the sealing of pressurized or non-pressurized leakages and water penetrations in walls, floors, concrete constructions, masonry, tunnels, sewer pipes, For sealing moist, non-structural cracks, **PC[®] Leakinject Hydrogel 6880** must be injected as a 1-component system. For sealing dry, non-structural cracks, **PC[®] Leakinject Hydrogel 6880** must be injected as a 2-component system with a for example 1/1 ratio with water.

3. Properties

- **PC[®] Leakinject Hydrogel 6880** reacts with water, forming a flexible, closed cell polyurethane foam.
- Due to its flexibility, the foam absorbs somewhat the movement of the crack.
- Penetrates deep in fine cracks.
- **PC[®] Leakinject Hydrogel 6880** doesn't need any additional catalyst to react with water. **PC[®] Leakinject Hydrogel 6880** can be used as it is.
- Reacts with water with the formation of carbon dioxide gas. This gas produces a swelling pressure and the resin expands to a dense, closed cell foam, sealing all water penetrations.
- Free expansion: $\pm 300\%$ (**PC[®] Leakinject Hydrogel 6880** / water = 1/1).
- Good all-round chemical resistance.
- Good adhesion to mineral construction materials (such as concrete, masonry, mortar,...).

4. Technical data (typical values)

- Colour and appearance: yellow – pale brown liquid
- Density (g/cm³): 1.132 g/cm³
- Viscosity: 5°C: 635 mPas
10°C: 443 mPas

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15°C: 375 mPas
 20°C: 310 mPas
 25°C: 280 mPas
 30°C: 230 mPas

- Reaction time at 20 °C:

PC [®] Leakinject Hydrogel 6880/water	Start of foaming	End of foaming
65/65	20 seconds	2 minutes
65/12	22 seconds	2 minutes 20 seconds
65/2.5	50 seconds	7 minutes

The reaction time decreases with increasing temperature and vice versa

- Expansion ratio 1/1 with water: ± 3V
- Application temperature range: 5°C – 30°C
- Shelf life: 6 months after production date in original, unopened and undamaged packaging, stored in a dry, dark 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. **PC[®] Leakinject Hydrogel 6880** is moisture sensitive.

5. Processing

Before usage, **PC[®] Leakinject Hydrogel 6880** should be shaken in order to achieve a homogeneous material. The product must not be thinned with solvents or plasticisers. The product **PC[®] Leakinject Hydrogel 6880** must be used as it is.

PC[®] Leakinject Hydrogel 6880 can be injected by two methods:

- Injection with a one-component, high pressure injection pump: the **PC[®] Leakinject Hydrogel 6880** resin will react with the water in the wet structure and will foam as tabled above.
- Injection with a two-component, high pressure injection pump: the **PC[®] Leakinject Hydrogel 6880** resin is injected in a, for example, 1/1 ratio with water in the dry structure and will foam as tabled above.

Inject **PC[®] Leakinject Hydrogel 6880** continuously into the crack. **PC[®] Leakinject Hydrogel 6880** reacts as soon as it is in contact with water, sealing cracks and blocking water seepage. In the absence of water, **PC[®] Leakinject Hydrogel 6880** does not expand and continues to penetrate into the cracks. However, the humidity of the air inside the cracks is already enough for the **PC[®] Leakinject Hydrogel 6880** to slowly cure into a flexible, polyurethane seal. Further technical details about the pumps are available on demand.

6. Packaging

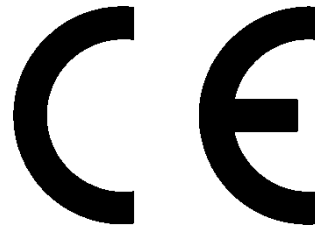
Metal pails of 25 kg.

7. Cleaning

Use PC[®] Ecoclean to clean the pump after injection. Uncured resin on tools and equipment can be washed off with acetone. Hardened foam on equipment must be removed mechanically or by use of PC[®] PU Cleaner.

8. Precautions and security measures

- Avoid contact of the products with the skin and eyes.
- Wear safety glasses, gloves and protective clothing.
- In case of contact with the eyes: wash with abundant quantities of water.
- Absorb spilled resin with sand and dispose according to the local regulations .
- Reacts with water. If contaminated by moisture CO₂ is formed which may result in excessive gas pressure in the metal pails.
- For more information: see Material Safety Data Sheet.


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Concrete injection product for swelling filling of cracks

Watertightness	$\geq 2 \times 10^5$ Pa
Workability – percentage of the crack filled	> 95 %
Corrosion behavior	Deemed to have no corrosive effect
Expansion ratio and evolution by water storage	Volume change: ± 8.66 %
Durability – sensitivity to water	The expansion reaches a constant level
Durability – sensitivity to wet-drying cycles	No modification of the expansion ratio
Durability – compatibility with concrete	Pass
Dangerous substances	comply with 5.4