

Two-component, MDI-based, elastic, polyurethane injection resin with very low viscosity. Developed for the water sealing of both wet and dry cracks.



APPLICATIONS

- Elastic water sealing of wet and dry cracks in walls, floors, concrete structures, underground structures, ...
- Injection of very fine cracks.
- Injection in injection hoses.

PROPERTIES

- Does not need water to react. Without water the material becomes a flexible seal. With water, the material will slightly foam.
- Good adhesion to concrete.
- Curing process does not cause any shrinkage, volume stays the same.
- Does not dry out after curing.
- Non-corrosive for metals.
- The resin can be combined with other water reactive PU resins from the PC® Leakingject range (2-step injection).

PROCESSING

Mix the PC® Leakingject 2K Flex 6811 LV A and the PC® Leakingject 2K Flex 6811 LV B in the correct ratio (1/1 volume or 1.2/1.32 weight). Inject this mixture through a one-component pump within the pumpable time or work with a two-component pump (volumetric ratio of 1:1)

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.

TECHNICAL DATA (Typical values)


	A COMPONENT	B COMPONENT	MIXTURE
Viscosity (20 °C)	144 mPas	62 mPas	118 mPas
Density (20 °C)	1.005 g/cm ³	1.105 g/cm ³	1.052 g/cm ³
Packaging small	12 kg	13.2 kg	
Packaging large	22.73 kg	25 kg	
Mixing ratio: 1:1 by volume	12 kg	13.2 kg	
	22.73 kg	25 kg	

Evaluation of the reactivity at 20 °C	Time needed for a mixture of 1 kg to rise in temperature from 20 °C to 40 °C in a 1 L recipient	> 15 minutes
Pumpable time		60 minutes at 20 °C
Loss of deformation ability after cyclic compression test:	EN 12637-1	< 20%
Shore A	After complete cure	72
Watertightness under pressure	EN 14068	Waterproof at 2 x 10 ⁵ Pa.
Compatibility with concrete	EN 12637-1	Pass (compatible)
Modulus of elasticity	EN ISO 527, after 5 days at 25 °C	6.6 MPa
Tensile strength	EN ISO 527, after 5 days at 25 °C	> 3 N/mm ²
Elongation at break	EN ISO 527, after 5 days at 25 °C	128 %
Injectability into a dry sand column	EN 1771, 0.1 mm - 0.3 mm	Easy to inject
Injectability into a wet sand column	EN 1771, 0.1 mm - 0.3 mm	Easy to inject
Adhesion and elongation at 3 °C	EN 12618-1	Adhesion to dry concrete: 1.30 N/mm ² Adhesion to wet concrete: 0.63 N/mm ² Adhesion to a sandblasted metal plate: 3.59 N/mm ² Elongation at 3 °C: 117 %
Glass transition temperature	EN 12614	- 35.2 °C

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 clean water and consult a doctor.
- In the event of skin contact: rinse abundantly with water.
- The B component of PC® Leakinject 2K Flex 6811 LV can react with water or atmospheric humidity to form CO₂-gas. This can build up pressure in a closed packaging or container that has already been opened.
- Mix residues of PC® Leakinject 2K Flex 6811 LV with sand and dispose of in accordance with local regulations.
- Consult the SDS for more information.

CE MARKING

 0749	
ECC N.V. Terbekehofdreef 50-52 B-2610 Wilrijk 09 0749 - CPD BC2-565-1895-0004-001	
EN 1504-5 Concrete injection product U(D1) W(1) (1/2/3) (5/30) Ductile filling of cracks	
Adhesion and elongation capacity at 3°C	Adhesion: On dry concrete slab: 1.30 N/mm ² On wet concrete slab: 0.63 N/mm ² On sandblasted metal plate: 3.59 N/mm ² Elongation: > 10%
Elongation capacity at 3 °C	> 10 %
Watertightness	≥ 2 x 10 ⁵ Pa
Glass transition temperature	- 35.2 °C
Injectability into dry medium	High injectability for crack widths from 0.1 mm
Injectability into non dry medium	High injectability for cracks widths from 0.1 mm
Initial viscosity mixture (20 °C)	118 mPas
Expansion ratio and evolution	NPD
Workable time	150 min (12°C), 90 min (25 °C)
Durability-compatibility with concrete	Pass
Corrosion behaviour	Deemed to have no corrosive effect
Dangerous substances	Comply with 5.4