

PC® LEAKINJECT 2K FLEX 6811 LV

TECHNICAL DATA SHEET

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[®] Leakinject range (2-step injection).

PROCESSING

Mix the PC[®] Leakinject 2K Flex 6811 LV A and the PC[®] Leakinject 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.

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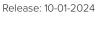
TECHNICAL DATA (Typical values)

	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	28 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 to dry concrete: 1.30 N/mm ²
Adhesion and elongation at 3 °C	EN 12618-1	Adhesion to wet concrete: 0.63 N/mm Adhesion to a sandblasted metal plate: 3.59 N/mm ² Elongation at 3 °C: 117 %
Glass transition temperature	EN 12614	- 35.2 ℃

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This sheet replaces all previous ones. The guidelines are the result of study and experience, and are given in good faith. The organization has no control over the way in which the products are applied or not, and can therefore not be held responsible for the results obtained and any damage. Depending on the evolution of knowledge and techniques TRADECC reserves the right to change the composition and conditions of use of its products without notice.







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

CE				
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 ℃			
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			

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