

PRODUCT DATA

LEAK INJECT 2K FLEX 6811 LV FLEXIBLE TWO COMPONENT POLYURETHANE INJECTION RESIN

PRODUCT DESCRIPTION

Leak Inject 2K Flex 6811 LV is a two component, MDI-based polyurethane injection resin with very low viscosity. It reacts in both wet or dry cracks and joints. When it comes in contact with water, the material will react and start to foam. In the absence of water, Leak Inject 2K Flex 6811 LV will react to form a flexible seal.

APPLICATION

Leak Inject 2K Flex 6811 LV is used to seal cracks and joints in walls, floors, concrete construction, sewers, etc. to prevent moisture ingress/escape. It can be used in both dry and wet cracks as it does not need the presence of water in order to react.

Another key benefit of this material is its excellent adhesion to both concrete and metal without the use of a primer. The curing process of the Leak Inject 2K Flex 6811 LV does not cause any shrinkage so the volume remains unchanged. The completely cured 2K PU resin does not swell in contact with water; does not dry out and is not corrosive to metals. In order to obtain optimal water sealing properties in concrete construction, the Leak Inject 2K Flex 6811 LV can be combined with other PU water reactive foams (for example Leak Inject 6816/E).

For applications that require longer pumping times, a slower reacting version Leak Inject 2K Flex 6811 LV LPL is available. For further information contact Stonhard Technical Services Department.

PROPERTIES

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

APPLICATION

Mix Leak Inject 2K Flex 6811 LV A and Leak Inject 2K Flex 6811 LV B in the correct ratio (1:1 volume or 1.2:1.35 weight). Inject this mixture through a single component pump within the pump time. For longer working times, use a two-component pump (volumetric ratio of 1:1).

PACKAGING

Leak Inject 2K Flex 6811 LV A and Leak Inject 2K Flex 6811 LV B are delivered in separate containers. The volumetric ratio is 1:1.

- Leak Inject 2K Flex 6811 LV A: 12 kg
- Leak Inject 2K Flex 6811 LV B: 13.5 kg
- Weight of the Mixture: 25.5 kg

TECHNICAL DATA (Typical Values)

A-Component	<ul style="list-style-type: none"> • Appearance: Colourless Liquid • Density: 1.009 g/ml • Viscosity (20°C): 78 mPas
B-Component	<ul style="list-style-type: none"> • Appearance: Dark Brown Liquid • Density: 1.076 g/ml • Viscosity (20°C): 76 mPas
Mixture	<ul style="list-style-type: none"> • Appearance: Dark Brown Liquid • Density: 1.076 g/ml • Viscosity (20°C): 78 mPas
Evaluation of Reactivity at 20°C	Time needed for a mixture of 470.6 g Leak Inject 2K Flex 6811 LV A & 529.4 g Leak Inject 2K Flex 6811 LV B to rise in temperature from 20°C to 40°C: 13 minutes
Pump Time	150 minutes at 12°C, 90 minutes at 25°C
Gel Time	10 hours at 12°C, 6 hours at 25°C
Completely Cured	7 days at 12°C, 5 days at 25°C
Mixing Ratio (weight)	1.2 kg A / 1.35 kg B
Shore A (after 5 days at 25°C)	72
Watertightness Under Pressure (EN 14068)	Waterproof up to 2×10^5 Pa
Compatibility with Concrete (EN 12637-1)	Pass (compatible with concrete)
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)	<ul style="list-style-type: none"> • Adhesion to Dry Concrete: 1.30 N/mm² • Adhesion to Wet Concrete: 0.63 N/mm² • Adhesion to a Sandblasted Metal Plate: 3.59 N/mm² • Elongation at 3°C: 117 %

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CLEANING

Clean pump and equipment with Ecoclean every time there is a stop of more than 15 minutes or whenever necessary and always at the end of an injection cycle. At the end of a working shift, flush equipment with an extra 1/4 litre of Ecoclean.

PRECAUTIONS AND SECURITY MEASURES

- Avoid contact of Leak Inject 2K Flex 6811 LV with the skin and eyes
- Wear safety glasses, gloves and overalls
- In case of contact with eyes: Wash with copious amounts of water and seek medical attention
- In case of contact with the skin: Wash with copious amounts of water
- Absorb spilled resin with sand and dispose of according to local regulations
- The Leak Inject 2K Flex 6811 LV B component can react with water or humidity in the air and form CO₂ gas. This can potentially build up pressure in packaging which has already been opened. Exercise caution when opening
- To dispose of any remaining product, mix both components of Leak Inject 2K Flex 6811 LV with sand and remove according the local regulations
- Consult the SDS

NOTES

- Safety Data Sheets for Leak Inject 2K Flex 6811 LV products are available upon request.
- A staff of Technical Service Engineers is available to assist with installation or to answer questions related to Leak Inject 2K Flex 6811 LV products.
- For worldwide availability, additional product information and technical support, contact your local sales representative, or call Stonhard at (800) 263.3112.

TECHNICAL DATA (Typical Values)

Glass Transition Temperature (EN 12614)	-35.2°C
Shelf Life	12 months after production date in the original, unopened and undamaged packaging. Leak Inject 2K FLEX 6811 LV must be stored in a dry place between +10°C and +30°C. Once packaging has been opened the material has a limited shelf life

Important:

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