

Eurolan[®] FK Inject 2

One-component polyurethane resin

Description

EUROLAN FK Inject 2 is a one-component polyurethane resin with moisture-dependent cure. Contact with ambient humidity will result in curing. It is particularly suitable for waterproofing purposes in moist and wet areas. When large voids are to be filled, an increase in volume by 4 to 8 %, depending on temperature and humidity, must be taken into account.

EUROLAN FK Inject 2 is resistant to salt-water, salts, gasoline, oils grease, many alkaline solutions, acids and other chemicals.

EUROLAN FK Inject 2 will not provide any mechanical bonding. EUROLAN FK Inject, a two-epoxy resin, must be used for that purpose.

Product data

Base	one-component polyurethane resin
Solvent	yes
Colour	yellow
Density	approx. 1.02 kg/dm ³
Consistency	liquid
Application temperature	+ 10 °C to + 35 °C (air and substrate)
Application	injection and pouring
Temperature resistance	dry: appr. + 80 °C wet: + 70 °C
Curing time	approx. 2 days
Flash point	200 °C
Cleaner	thinner AX

Range of application

EUROLAN FK Inject 2 is suitable:

- for the sealing of cavities and cracks in concrete and masonry, water reservoirs, swimming pools, sewage treatment plants, quay walls, foundations, shafts
- for post sealing of joints with pipe connecting sleeves.

Working instructions

Preparation of substrates

The substrate should be moist and must be free from dust, oil and grease. Blowing out the cracks with dry compressed air will provide good conditions.

Injection method

For this method, EUROLAN FK Inject 2 is injected into the gaps and cracks with an appropriate injecting pump at a pressure of 10 to 200 bar (depending on the compressive strength of the substrate). Clean the concrete surface to appr. 3 to 4 cm on both sides of the crack with a steel brush or with grinding discs. Drill holes at appropriate intervals and install the injection nipples carefully. Close the cracks between the injection nipples with PLASTIKOL Multipox S or EUROLAN FK 22 GS. Allow one of the presaid products to cure completely before injection in order to avoid loss of the injection material through extrusion. Then charge the injection cylinder and convey the injection material through pump and high-pressure hose to the injection nipples and thence the crack area.

When a steady pressure is obtained, proceed to the next injection nipple and repeat the injection procedure. The delivery parts of the pump must be cleaned carefully with thinner AX at the latest 1 or 2 hours upon completion of the operation.

Pouring method

For horizontal surfaces, drill pouring holes at 50 to 100 cm intervals and 20 to 50 cm deep. The drilled holes should be about 2 to 5 cm diameter. Spots where the resin might penetrate downward or sideward must be sealed with CERINOL Fix beforehand. Then pour in the well mixed EUROLAN FK Inject 2. When the level drops, immediately add more material.

For vertical surfaces, seal the cracks in sections with CERINOL Fix and pour in the injection resin slowly above that point. In order to avoid inclusions of air, the resin must flow in a way that the air is allowed to escape upward. The cracks, joints and cavities to be sealed must contain moisture; if not, moisten beforehand is necessary.

We recommend to wear safety glasses while handling EUROLAN FK Inject 2. After use, the containers must be hermetically reclosed.

Use of accelerator

It is required in case of injection in a water-containing area. Even with an admixture of only 0.5 %, the accelerator is capable of doubling the reaction velocity of EUROLAN FK Inject 2, which depends on the amount of water in the cracks and on temperature. The foam volume will be increased.

The accelerator is mixed with EUROLAN FK Inject 2. The admixture range is approx. 0.5 to 5 %. The material must then be used immediately.

Cleaning of tools

Clean tools with thinner AX is necessary. For rinsing, use an oil-containing material.

Consumption

200 g of EUROLAN FK Inject 2 will fill one liter for joint or cavity space.

Delivery and storage

EUROLAN FK Inject 2 is available in containers of 1 l, 5 l and 10 l (net contents). Partial crystallization of the injection resin is possible at temperatures below 0 °C. Upon slight heating, the crystals will dissolve again and further use will be possible without problems. Protect the material against humidity and keep the container hermetically sealed. Can be stored dry and in original sealed packing for at least 6 months.

Store EUROLAN FK Inject 2 away from food and drink.

Notes

The correct and hence successful application of our products is not within our control. A guarantee can therefore only be accepted for the quality of our products within the framework of our sale and supply conditions but not for their successful use.

Observe the safety precautions for protection of health and prevention of accidents given in the safety data sheet and on the label of the packaging.

This data sheet supersedes all earlier technical data on this product.

Information supplied by our employees and/or distributors going beyond the information contained in this data sheet must be confirmed in writing.

We reserve the right to make changes representing technical progress.

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