MC-Montan Injekt LE-S

Expansion resin for consolidation, load-bearing capacity increase and sealing of foundation soil as well as for lifting of structures

BE SURE. BUILD SURE.

PRODUCT PROPERTIES

- Low-viscosity polyurethane-based expansion resin
- High increase in volume, no resqueezing
- Water-displacing
- Durable water impermeability
- Pressure-resistant, dampening vibrations
- Low relaxation
- Corresponds to fire class B2 according to DIN 4102 in the injection medium
- No lasting effects on soil and groundwater according to the test principles of the DIBt
- REACH exposure: water contact permanent, inhalation periodic, processing and application

AREAS OF APPLICATION

- Consolidation of foundation soil in deep soil layers up to approx. 10 m by compacting
- Increasing the load-bearing capacity of the building site under structures and traffic areas
- Lifting and stabilization of structures by lifting the building site
- Stopping extreme water leakages in structures and sewage structures
- Cavity filling up to 60 cm in diameter (without aggregate)

APPLICATION ADVICE

Preparatory measures: Prior to injection, an investigation of the rock or structure and of any leaks must be carried out according to the state of the art and the rules of technology, and an injection concept must be planned. The compatibility of an uplift injection for structures must be confirmed by a building structural engineer. Injection lances or injection packers must be set before injection. A trial injection is recommended.

Mixing the components: Components A and B are mixed as they pass through the 2K-mixing head of the 2K-injection pump with flushin unit in a mixing ratio of 1:1 by volume (mixing distance ≥ 20 cm inline static mixer).

Injection: Injection is performed with the two components injection pump with flushing unit, which generates sufficient pressure and delivery rate, e.g. MC-I 710 with flushing unit.

Injection lances with 1/4" internal diameter are recommended for injection into loose rock. The insertion depth of the injection lances is based on the implementation plan. It can be between 1 m and 15 m. MC-Bore Packer LS 18 packers are recommended for injection into solid building components.

The injection can be carried out in frost-free subsoil regardless of the subsoil temperature if the resin temperature is 5 to 30 ° C. The same applies to building injection.

Ensure compliance with the information given in the specifications and the Safety Data Sheets.

Equipment cleaning: Within the working time of the resin, all solvent-resistant tools can be cleaned with MC-Cleaner eco or thinner product MC-Verdünnung PU. Material that has reacted or set will need to be removed mechanically.

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TECHNICAL VALUES & PRODUCT CHARACTERISTICS

Characteristic	Unit	Value	Comments
Mixing ratio	parts by volume	1 : 1	comp. A : comp. B
	mass fractions	20.4 : 20.6	comp. A : comp. B
Density	kg/dm³		DIN 53479
		approx. 1.125	mixture
		approx. 1.02	component A
		approx. 1.23	component B
Viscosity	mPa·s		EN ISO 3219
		approx. 350	component A
		approx. 210	component B
Working time	seconds	approx. 10	ASTM D7487
Application conditions	°C	approx. 5 - 40	air and substrate temperatures
Reaction time, pot life	seconds	approx. 23 - 24	tack-free property
Expansion factor		approx. 32	depending on backpressure
	All technical values are laboratory results determined at 21°C ±2°C and 50% relative humidity.		

Colour	yellowish
Equipment cleaning agent	MC-Verdünnung PU (thinner), under no circumstances should water or aqueous cleaning agents be used
Delivery form	20 l (component A) and 20 l (component B) 200 l (component A) and 200 l (component B)
Storage	Can be stored in original sealed packages at temperatures between 5°C and 35°C in dry conditions for at least 18 months.
Packaging disposal	Make sure single-use containers are completely empty.

Safety instructions
Please note the safety information and advice given on the packaging labels and safety data sheets. GISCODE : PU40

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