

MC-Montan Injekt LE

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



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 3K special mixing head of the injection pump with flushing unit in a mixing ratio of 1:2 by volume.

Injection: Injection is performed with the two components injection pump with flushing unit (3K) and 3K-special mixing head, which generates sufficient pressure and delivery rate (e.g. Desoi PN-2036-50 3K).

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.

TECHNICAL VALUES & PRODUCT CHARACTERISTICS

| Characteristic | Unit | Value | Comments |
|-------------------------|--------------------|-----------------|-----------------------------------|
| Mixing ratio | parts by volume | 1 : 2 | comp. A : comp. B |
| | mass fractions | 25 : 58.5 | comp. A : comp. B |
| Density | kg/dm ³ | | DIN 53479 |
| | | approx. 1.14 | mixture |
| | | approx. 1.05 | component A |
| | | approx. 1.23 | component B |
| Viscosity | mPa · s | | EN ISO 3219 |
| | | approx. 265 | component A |
| | | approx. 210 | component B |
| Working time | seconds | approx. 4 - 5 | ASTM D7487 |
| Application conditions | °C | 5 - 40 | component and subsoil temperature |
| 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

Note: The information contained in this data sheet is based on our experience and is correct to the best of our knowledge. It is, however, not binding. It will need to be adapted to the requirements of the individual structure, to the specific application and to non-standard local conditions. Application-specific conditions must be checked in advance by the planning engineer/specifier and, where different from the standard conditions indicated, will require individual approval. Technical advice provided by MC's specialist consultants does not replace the need for a planning review by the client or its agents in respect of the history of the building or structure. Subject to this prerequisite, we are liable for the correctness of this information within the framework of our terms and conditions of sale and delivery. Recommendations of our employees deviating from the information given in our data sheets are only binding for us if they are confirmed in writing. In all cases, the generally accepted rules and practices reflecting the current state of the art must be observed. The information given in this technical data sheet is valid for the product supplied by the country company listed in the footer. It should be noted that data in other countries may differ. The product data sheets valid for the relevant foreign country must be observed. The latest technical data sheet shall apply to the exclusion of previous, duly superseded versions; the date of issue in the footer must be observed. The latest version is available from us on request or may be downloaded from our website. [2300018173]