

MC-Montan Injekt CB

Injection resin for consolidating and sealing rock and soils as well as for setting and lifting concrete slabs



PRODUCT PROPERTIES

- Low-viscosity silicate-based duromer resin
- Short reaction time
- Water-displacing
- Not foaming
- High compressive and tensile strength
- Permanently watertight
- Corresponds to fire class B1 according to DIN 4102 in the injection medium format
- Groundwater hygienically harmless
- REACH exposure: Water contact permanent, inhalation periodic, processing and application
- Environmental Product Declaration EPD

AREAS OF APPLICATION

- Sealing and consolidation of gaps and cavities in rock areas, loose rock, soils
- Increasing the load-bearing capacity of the building site under floor slabs and foundations
- Controlled lifting of floor slabs and foundations in building structures
- Controlled lifting of road slabs according to ZTV BEB Stb
- Sealing and reinforcing cavities and cracks in structures made of concrete and masonry
- Sealing of running joints in concrete structures

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. Packers must be set before injection. A trial injection is recommended.

Mixing the components: Components A and B of MC-Montan Injekt CB are mixed as they pass through the mixing head of the injection pump (mixing distance ≥ 20 cm inline static mixer).

The working time of the mixed resin depends on the ambient temperature. The working time can be extended by cooling the resin components and the resin mixture.

Injection: Injection is performed with the two components being mixed as they are dispensed by the MC-I 710.

Lances are recommended for injection into rock or subsoil.
MC-Bore Packer LS 18 packers are recommended for injection into building components.

Application work should cease once component/substrate temperatures fall below 5 °C.

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

Equipment cleaning: Within the working time of the resin, the delivery side A can be cleaned with water. The delivery side B can be cleaned with MC-Cleaner eco or thinner product MC-Reinigungsmittel U. 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 : 1	comp. A : comp. B
	mass fractions	100 : 77.5	comp. A : comp. B
Density	kg/dm ³		DIN 53479
		1.3	mixture
		1.47	component A
		1.17	component B
Viscosity	mPa · s	approx. 380	
Working time	minutes	approx. 1	
Application conditions	°C	5 - 45	component and subsoil temperature
	%	≤ 85	rel. humidity
	K	3	
Compressive strength	N/mm ²		EN 196-1
		approx. 30	±5
Shore D hardness		approx. 70	
Setting time	minutes	approx. 3	

All technical values are laboratory results determined at 21°C ±2°C and 50% relative humidity.

Colour	Beige
Equipment cleaning agent	Component A: water / component B: MC-Cleaner eco or MC-Reinigungsmittel U / resin mixture: MC-Cleaner eco or MC-Reinigungsmittel U
Delivery form	Canister with 20 l / 1000 l content component A Canister with 20 l / 1000 l content component B
Storage	Can be stored in original sealed packages at temperatures between 10°C and 35°C in dry conditions for at least 6 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. GHS CODE : 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. [2400020527]