MC-Montan Injekt CB

Injection resin for consolidation and sealing of rocks and ground and for fixing and uplifting of concrete slabs

Product Properties

- Rapid hardening, two-component organo-mineral resin
- Water-displacing
- Non-foaming
- High compressive- and tensile strength
- Low-flammable
- Harmless to groundwater

Areas of Application

- Sealing and solidification of open seams and cavities in rock zones, loose rock, ground
- Increase of load-bearing capacity of building ground under base slabs and bed-plates
- Controlled uplifting of base slabs and bed-plates in building constructions
- Controlled uplifting of deck slabs according to ZTV BEB Stb
- Sealing and reinforcing of cavities and cracks in buildings made of concrete and masonry
- Sealing of running joints in concrete buildings

Application

Product description
MC-Montan Injekt CB is a two-component organo-mineral resin which cures to a solid, waterproof resin body. It may be injected into building ground and structures both with and without exposure to water. The resin displaces existing water and does not foam in contact with water.

Preparative measures
Prior to application the injectivity of the rocks, building ground or structure must be checked and an injection concept is to be defined in accordance with applicable regulations and standards.

Injection packers / Injection lances
Placing of suitable packers/lances with sufficient inner diameter (> 4 mm). Arrangement and depth of packers/lances are based upon the geotechnical expertise.

Mixing of components
Mixing of the components is carried out during application in the mixing-head of the 2-component injection pump (mixing section with spiral mixers with at least 30 segments).

Injection
Injection is carried out using a 2-component injection pump with sufficient pressure and capacity. Ensure to only use injection packers which are capable to withstand the injection pressure of the pump, e.g. MC-Bore Packer LS 18. These high-pressure packers require drill channels with a diameter of 18 mm. They may be combined with pile-driving lances with an inner diameter of 18 mm.

Injection of MC-Montan Injekt CB must be stopped if the temperature of the ground/structure drops below + 5 °C.

Cleaning of machinery
In case of short interruptions of work the mixing head can be filled completely with component A. In case of any longer interruption the injection pump must be flushed thoroughly. The component A side can be cleaned with water, the component B side is cleaned with MC-Reinigungsmittel U. The cleaning agents must only be used separately from each other. Further details on the used pumps must be observed.

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Technical Data for MC-Montan Injekt CB

Characteristic	Unit	Value*	Comments
Mixing ratio	p.b.v. p.b.w.	1 : 1 100 : 77.5	component A : component B component A : component B
Density	kg/dm³	1.3	DIN 53 479
Viscosity	mPa·s	approx. 380	DIN 53 018
Compressive strength	N/mm²	approx. 30 ± 5	DIN EN 196 T1
Shore-D-hardness		approx. 70	ISO 868
Application time	minutes	approx. 1	
Setting time	minutes	approx. 3	
Application conditions	°C	+ 6 - + 45	substrate-, ground and air temperature
	% K	≤ 85 3	relative humidity above dew point

* All technical values relate to + 20 °C and 50 % relative humidity.

Product Characteristics MC-Montan Injekt CB

Cleaning agent	Within the pot life all equipment may be cleaned after each work step, separated per component. Component A with water, component B with Reinigungsmittel U. Partially or completely cured material can only be removed mechanically.
Colour	component A: yellow component B: brown mixture: beige
Delivery	canister with 20 l, 1000 l component A canister with 20 l, 1000 l component B
Storage	Can be stored in original sealed packages at the temperatures between + 10 °C and + 35 °C in dry conditions for at least 6 months. The same requirements are valid for transport!
Disposal	Packs must be emptied completely.

Safety Advice:
Please take notice of the safety information and advice given on the packaging labels and safety information sheets. GISCODE: PU40

Edition 11/20. Some technical changes have been made to this print medium. Older editions are invalid and may not be used anymore. If a technically revised new edition is issued, this edition becomes invalid.

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