



MC-Injekt 2300 top / 2300 rapid

Ductile-elastically sealing injection resin for concrete and masonry

Product Properties

- Particularly low-viscosity polymer reactive injection resin
- Low surface tension
- Excellent injectivity
- Variably adjustable reaction time
- Forming watertight pore structure, non-foaming
- Durable water tightness against high pressing water
- High ductility
- High chemical resistance
- Performance conformity for injection according to EN 1504-5: CE U(D2) W(1) (1/2/3/4) (5/40)
- Drinking water test certificate according to UBA guidelines
- General building inspectorate approval of the DIBt for chemical sealing concrete in LAU systems
- General building inspectorate approval of the DIBt for injection into soil and groundwater
- REACH-assessed exposure scenarios: long-term water contact (crack), periodical inhalation, application

Areas of Application

- Ductile-elastic sealing and filling of cracks, joints and cavities in building construction, underground and civil engineering under dry, water-bearing and pressurized water conditions
- Injection according to EN 1504-5
- Injection of drinking water structures
- Injection of masonry against capillary moisture
- Injection of injection hoses
- Subsoil sealing and subsoil consolidation (membrane injection)

Application

Product description

MC-Injekt 2300 top and MC-Injekt 2300 rapid are two component polymer reactive resins. MC-Injekt 2300 rapid is fast reacting; MC-Injekt 2300 top reacts slower. Both resins can be injected individually or in combination into structures or subsoil with or without water conditions. The resins does not foam in contact or mixed with water. Both fulfill high water hygienic requirements.

Preparation

Prior to injection, an examination of the structure to be injected must be carried out according to the state of the art and engineering rules, and an injection concept must be defined.

Mixing

MC-Injekt 2300 top / 2300 rapid consist of two reactive components A and B each. Prior to processing the components are mixed for one-component injection. In case of 2-component injection the components are mixed in the mixing head of the 2-component injection pump. Pre-mixing is not applicable.

In case of flowing water or low temperatures the

reactivity of MC-Injekt 2300 top can be accelerated by adding MC-Injekt 2300 rapid or use MC-Injekt 2300 rapid directly.

Strong water flow can be stopped with MC-Injekt 2033. Pre-injection of this expanding resin is followed by the permanently sealing injection with MC-Injekt 2300 top.

Injection

Injection is carried out with the MC-I 510 (1-component) or MC-I 700 (2-component) injection pump and injection packers. For injection into structural components we recommend MC-Injektionspacker DS 14.

Injection must be stopped in case of structure temperatures of $< 5\text{ }^{\circ}\text{C}$ or $> 40\text{ }^{\circ}\text{C}$. For detailed information on application please see the MC Method Statement for MC-Injekt 2300 top / 2300 rapid.

Machine cleaning

Within the application time all tools and equipment can be cleaned with MC-Verdünnung PU (Thinner). Partially or completely cured material can only be removed mechanically.



Technical Data for MC-Injekt 2300 top / 2300 rapid

Characteristic	Unit	Value*	Comments
Mixing ratio	p. b. v. p. b. w.	1 : 1 100 : 111	component A : component B component A : component B
Density	kg/dm ³	approx. 1.04	DIN 53 479
Viscosity	mPa·s	approx. 55	EN ISO 3219
Surface tension	mN/m	34.651	Krüss Processor Tensiometer K100
Application time			
MC-Injekt 2300 top	minutes	approx. 35	EN 1504-5 (up to 1,000 mPa·s)
MC-Injekt 2300 rapid		approx. 2	
Reaction time			
MC-Injekt 2300 top	minutes	approx. 90	ASTM D 7/487
MC-Injekt 2300 rapid		approx. 4	
Expansion in contact with water	%	approx. 4	EN 14 406
Application temperature	°C	+ 5 to + 40	structure-/ substrate temperature
Ductility in crack	%	approx. 11 - 17	EN 12618-2
Free lengthening	%	approx. 100	DIN 53 455
Adhesive tensile-strength	N/mm ²	approx. 0.46 - 1.31	EN 12618-1, concrete dry / moist
Glass transition temperature	°C	- 34.2	EN 12 614

* All technical values relate to 21 ± 2 °C and 50 % relative humidity.

Product Characteristics for MC-Injekt 2300 top / 2300 rapid

Colour	light-brown
Delivery	box of 6 x 1 l canister with 10 l or 20 l for component A and B each
Storage	Can be stored in original sealed packages at temperatures between + 5 °C and + 30 °C in dry conditions for at least 18 months. The same requirements are valid for transport.
Cleaning agent	MC-Verdünnung PU (Thinner)
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

Note: The information on this data sheet is based on our experiences and correct to the best of our knowledge. It is, however, not binding. It has to be adjusted to the individual structure, application purpose and especially to local conditions. Our data refers to the accepted engineering rules, which have to be observed during application. This provided we are liable for the correctness of this data within the scope of our terms and conditions of sale-delivery-and-service. Recommendations of our employees which differ from the data contained in our information sheets are only binding if given in written form. The accepted engineering rules must be observed at all times.

Edition 12/18. 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.