

MC-Injekt 2300 top

Flexible Sealing Injection Resin

Product Properties

- Very low-viscous, polyurethane-based elastomer resin
- Very good injection properties
- High reactivity
- Controlled pore formation with limited increase in volume
- High flexibility, watertight
- Fulfills UBA-guideline for sealing in contact with drinking water
- Declaration of Performance according to EN 1504-5: U(D1) W(1) (1/2/3/4) (6/35)

Areas of Application

- Flexible sealing and filling of cracks, joints and voids in building construction, underground and engineering structures under dry, water-bearing and high-pressure water-bearing conditions
- Injection works according to EN 1504
- Injection hoses
- Sealing of potable water structures
- Subsequent horizontal barrier and vertical barrier against rising moisture in masonry
- REACh-assessed exposure scenarios: long-term water contact (crack), periodical inhalation, application

Application

Preparation

Before injection, the structure, the leaking areas, respectively, have to be inspected according to technical standards and regulations, and, injection concept is to be prepared.

Mixing

MC-Injekt 2300 top consists of two components, component A and component B. They have to be mixed according to the recommended ratio using slowly rotating stirrers until the mixture is homogeneous. Before processing, the mixed reactive resin has to be repotted into a clean empty container or a container in which only mixed resin of the same quality was stored. Repotting is fulfilled when the resin is poured into the reservoir of an injection pump and re-mixed thoroughly.

When using a 2-component pump, the two components are mixed in the mixing head of the pump. Premixing is not necessary.

The application time depends on the quantity of the mixed material and the ambient temperature.

Acceleration of Reactivity

The reaction of the resin can be accelerated by adding the catalyst MC-KAT 23 (addition of up to

2 % related to component A). The catalyst has to be added in component A before the two components are mixed.

Injection

The injection can be executed with the injection pump MC-I 510 (1-component pump) or MC-I 700 (2-component pump).

In case of high pressurized water where the accelerated reactivity with MC-KAT 23 is not sufficient enough, the elastomer foam MC-Injekt 2033 must be pre-injected, so that MC-Injekt 2300 top can not be washed out before curing. For the injection MC-Injektionspacker (high-pressure bore packer) are recommended.

Work with MC-Injekt 2300 top must be stopped if the temperature of the structure drops below + 6 °C. Detailed information on application can be found in MC Method Statements for MC-Injekt 2300 top.

Machine Cleaning

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



Technical Data for MC-Injekt 2300 top

Characteristic	Unit	Value*	Comments
Mixing ratio	p. b. w. p. b. v.	100 : 111 1 : 1	component A : component B component A : component B
Density	kg/dm ³	approx. 1.04	DIN 53 479
Viscosity	mPa·s	approx. 55	DIN EN ISO 3219
Surface tension	mN/m	approx. 34.651	Krüss Processor Tensiometer K100
Expansion in crack	%	> 11 - 17	DIN EN 12618-2
Maximum expansion	%	approx. 100	DIN 53 455
Adhesive tensile strength	N/mm ²	approx. 0.6	DIN EN 12618-1, dry/wet concrete
Expansion ratio with water	-	approx. 1.04	DIN EN 14406
Glass transition temperature	°C	approx. - 34	DIN EN 12614
Application time	Minutes	approx. 35	DIN EN 1504-5
Application temperature	°C	+ 6 to + 35	air, substrate and material temperature

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

Product Characteristics for MC-Injekt 2300 top

Cleaning agent	MC-Verdünnung PU (MC-Thinner PU) Under no circumstances water or water-based cleaning agents should be used.
Colour	Light brown
Delivery	Box of 6 x 1 l pack, canister of 10 l and 20 l for each component MC-KAT 23 in a box of five 400 ml aluminium bottles
Storage	Can be stored in original sealed packages at temperatures between + 5 °C and + 25 °C in dry conditions for at least 1 year. 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 data 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 02/17. 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.