

MC-Injekt 2300 *plus*

Flexible Sealing Injection Resin

Product Properties

- Low-viscosity, polyurethane-based elastomer resin
- Optimised mixing ratio
- Optimised reaction time
- Accelerated reaction in contact with water with limited increase in volume
- Flexible sealing
- Fulfils UBA - guideline for sealing in contact with drinking water
- Low-flammability according to DIN 4102 / part 14 (material class B1)

Areas of Application

- Flexible sealing and filling of cracks, joints and voids in building construction, underground and civil engineering under dry, water-bearing and high-pressure water-bearing conditions
- Injection hoses
- Sealing of potable water structures
- Subsequent sealing by horizontal barrier and, where necessary, vertical barrier against rising moisture in masonry
- REACh-assessed exposure scenarios: long-term water contact (crack), application
- DIN EN 1504-5 classification: U (D1) W (1) (1/2/3/4 ¹⁾²⁾ (6/35)

Application

Preparation

Before injection the structure's cracks and voids have to be inspected according to technical standards and regulations, and an injection concept is to be planned.

Mixing

MC-Injekt 2300 *plus* consists of two components, component A (base) and component B (hardener). They are mixed according to the recommended mixing ratio using a slowly rotating drill (200 - 400 r.p.m.) with appropriate mixing paddle.

After mixing the material should be filled into clean container and briefly mixed again (re-potting). The re-potting is complete when the resin has been filled into the storage container of an injection pump and when it has been shortly remixed.

The pot life depends on volume of mixed material and ambient temperatures.

When using a 2-component pump, the two components are mixed in the mixing head of the pump. In this case no previous mixing is necessary.

Acceleration of reactivity

The reaction time of the resin can be accelerated via MC-KAT 23 (addition of up to 1% relating to component A).

Prior to the mixing of the two components the catalyst has to be mixed into component a

Injection

MC-Injekt 2300 *plus* can be applied with either one of two injection pumps: MC-I 510 (one-component pump) or MC-I 700 (two-component pump).

If pressurised water is present, the elastomer foam MC-Injekt 2033 should be injected beforehand to prevent the MC-Injekt 2300 *plus* from being washed out before curing. Please refer to the technical data sheet "MC-Injekt 2033".

For the injection MC-Injectionspacker (bore packer) are recommended.

Work with MC-Injekt 2300 *plus* must be stopped at temperatures below + 6 °C.

Detailed information on application can be found in the MC Method Statements for MC-Injekt 2300 *plus*.

Machine Cleaning

Within the application time of the resin all equipment can be cleaned with MC-Verdünnung PU (MC-Thinner PU). Cured material can only be removed mechanically.



Technical Data for MC-Injekt 2300 plus

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	1.043	DIN 53 479
Viscosity	mPa·s	approx. 95	DIN EN ISO 3219
Maximum expansion	%	approx. 145	DIN 53 455
Expansion ratio with water	-	1.04	DIN EN 14406
Shore-A-hardness		approx. 35	ISO 868
Application time	minutes	approx. 35	DIN EN 1504-5
Application temperature	°C	+ 6 to + 35 + 6 to + 30	air and substrate temperature material temperature
Glass transmission temperature	°C	approx. - 70	DIN EN 12614

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

Product Characteristics for MC-Injekt 2300 plus

Colour	light brown
Cleaning	MC-Verdünnung PU (MC-Thinner PU) Water or water-based cleaning agents must not be used under any circumstances!
Delivery	Box à 6 x 1 l pack, canister of 10 l and 20 l for each component MC-KAT 23 in a box of three 1 l aluminium
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.

1) in combination with MC-Injekt 2033

2) in combination with MC-KAT 23

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 06/12. 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.