

MC-Injekt 2300 NV

Flexible Sealing Injection Resin

Product Properties

- Low-viscosity, polyurethane-based elastomer resin
- Long application time
- Accelerated reaction in contact with water, limited increase in volume
- Flexible sealing
- Fulfills UBA - guideline for repair systems in contact with drinking water

Areas of Application

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

Application

Preparation

Before injection the structure's cracks and voids, respectively the leakage, have to be inspected according to technical standards and regulations, and an injection proposal is to be prepared.

Mixing

MC-Injekt 2300 NV consists of two components, component A (base) and component B (hardener). They have to be mixed according to the advised mixing ratio and must be thoroughly mixed with a slowly rotating mechanical mixer.

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 the prepared quantity and the ambient temperatures.

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 NV can be applied with injection pump MC-I 510.

If highly pressurised water is present, the elastomer foam MC-Injekt 2033 should be injected beforehand, to prevent the polyurethane resin MC-Injekt 2300 NV from being washed out while hardening. Please refer to the technical data sheet "MC-Injekt 2033".

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

Work must be stopped if temperature of the structure drops below + 6 °C. The temperature of $\geq + 6$ °C must be observed during the entire time of the strength development.

Extensive advice on the application can be found in the Application Information of the General construction supervision Test Certificates for MC-Injekt 2300 NV (P-6130/9940).

Machine Cleaning

Within the pot life all equipment may be cleaned with MC-Verdünnung PU (MC-Thinner PU). Partially and completely cured material can only be removed mechanically.



Technical Data for MC-Injekt 2300 NV

Characteristic	Unit	Value*	Comments
Mixing ratio	p. b. w. p. b. v.	100 : 42 3 : 1	component A : component B component A : component B
Density	kg/dm ³	1.05	DIN 53 479
Viscosity	mPa·s	100	DIN EN ISO 3219
Max. expansion	%	100	DIN 53 455
Expansion ratio with water	-	1.3	DIN EN 14406
Shore-A-hardness		50	ISO 868
Application time	minutes	100	DIN EN 1504-5
Application temperature	°C	+ 6 to + 35 + 6 to + 30	air substrate temperature material temperature

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

Product Characteristics for MC-Injekt 2300 NV

Colour	light-brown
Cleaning agent	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 10 l and 30 l pack MC-KAT 23 in a box of three 1 l 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.

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.