

MC-Injekt 2300 NV

Ductile-elastically sealing injection resin for concrete and masonry

Product Properties

- Low-viscosity polymer reactive injection resin
- Low surface tension
- Excellent injectivity
- Accelerated reactivity with contact with water
- Forming watertight pore structure, non-foaming
- High ductility
- Permanent waterproofness
- Performance conformity for injection according to EN 1504-5: CE U(D1) W(2) (1/2/3/4) (5/40)
- 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 masonry against capillary moisture
- Injection of injection hoses

Application

Product description

MC-Injekt 2300 NV is a two component polymer reactive injection resin, that reacts to an elastic, waterproof resin body. It can be injected into structures with or without water conditions. Reaction and hardening time are generally long. But **MC-Injekt 2300 NV** reacts in contact with or mixed with water much faster. It does not foam up.

MC-I 510 and injection packers. For injection into structural components we recommend MC-Injektions packer DS 14.

Strong water flow can be stopped with **MC-Injekt 2133** beforehand. Pre-injection of this expanding resin is followed by the permanently sealing injection with **MC-Injekt 2300 NV**.

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.

Injection must be stopped in case of structure temperatures of $< 5\text{ °C}$ or $> 40\text{ °C}$. For detailed information on application please see the MC Method Statement.

Mixing

MC-Injekt 2300 NV consists of two reactive components A and B. Prior to processing the components are to mix intensively.

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.

Injection

Injection is carried out with the injection pump



Technical Data for MC-Injekt 2300 NV

Characteristic	Unit	Value*	Comments
Mixing ratio	p. b. v. p. b. w.	3 : 1 100 : 111	component A : component B component A : component B
Density - component A - component B - mixture	kg/dm ³	approx. 0.98 approx. 1.23 approx. 1.05	DIN 53 479
Viscosity	mPa·s	approx. 100	EN ISO 3219
Surface tension	mN/m	31.474	Krüss Processor Tensiometer K100
Application time - with 1 % water - with 5 % water	minutes	approx. 40 approx. 35 approx. 12	EN 1504-5 (reaching 1,000 mPa·s)
Reaction time	minutes	approx. 180	ASTM D7487
Expansion in contact with water	%	approx. 30	EN 14 406
Application temperature	°C	+ 5 to + 40	Substrate-/ 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. 0.31-0.89	EN 12618-1, concrete dry / moist
Glass transition temperature	°C	- 4	EN 12 614

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

Product Characteristics for MC-Injekt 2300 NV

Colour	light-brown
Delivery	box of 6 x 1 l package with 10 l und 30 l with comp. A and B
Storage	Can be stored in original sealed packages at temperatures between + 5 °C and + 35 °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

While processing appropriate gloves, protection clothing and safety goggles are mandatory. 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 01/22. 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.