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MC-Injekt 2300 top

Ductile and flexible injection resin for the durable waterproofing of concrete, masonry and foundation soil.

PRODUCT PROPERTIES:

- Low-viscosity polymer reactive injection resin.
- Low surface tension, helping to increase penetration and creep into the structures.
- Good injectivity.
- High ductility.
- Permanent waterproofness.
- Forming watertight pore structure, non-foaming.
- Capable of drying and setting under dynamic loads.
- 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.
- Injection according to EN 1504-5, DafStb, ZTV-ING.
- Achieved EPD (Environmental Product Declaration) certificate.

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 of masonry against capillary moisture.
- Injection of injection hoses details.

APPLICATION NOTES:

- **General information: MC-Injekt 2300 top** is a two component polymer reactive injection resin, reacting to an elastic, waterproof resin body. It can be injected into structures with or without water conditions. It does not foam up.
- **Surface 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** consists of two reactive compo- nents A and B. Prior to processing the compo- nents are to mix intensively.
  - The shelf life of the mixture after mixing depends on the mixing volume and the ambient temperature. Application time can be extended by cooling components A, B and the mixture.
- **Application:** Injection is carried out with the injection pump **MC-I 510** and injection packers. For injection into structural components we recommend **MC-Injektionspacker DS 14**. Strong water flow can be stopped with **MC-Injekt 2188** beforehand. Pre-injection of this expanding resin is followed by the permanently sealing injec- tion with **MC-Injekt 2300 top**. Injection must be stopped in case of structure temperatures of < 5°C or > 40°C. For detailed information on application please see the MC Method Statement.
- **Cleaning of tools and machines:** 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.

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TECHNICAL DATA:

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: • Component A • Component B • Mixture	Kg/dm³	 ~ 0.98 ~ 1.09 ~ 1.04	 EN ISO 2811-1 EN ISO 2811-1 EN ISO 2811-1
Viscosity	mPa*s	~ 55	EN ISO 3219
Surface tension	mN/m	34,651	Krüss Processor Tensiometer
Application time	Minute	~ 35	EN 1504-5 (reaching 1.000 mPa·s)
Reaction time	Minute	~ 90	ASTM D7487
Expansion in contact with water	%	~ 4	EN 14 406
Pressure water tightness	bar	approx. 7	EN 14068
Application temperature	°C	5-40	substrate temperature
Ductility in crack	%	~ 11 - 17	EN 12618-2
Free lengthening	%	~ 100	DIN 53 455
Adhesive tensile-strength	N/Mm²	~ 0.46 - 1.31	EN 12618-1, concrete, dry-damp
Glass transition temperature	°C	- 34.2	EN ISO 11357-2

**Specifications are based on laboratory conditions (21°C ± 2 and 50% relative humidity) and are subject to change under actual application conditions. To determine specifications under specific conditions, preliminary conformance tests should be carried out under actual construction conditions.*

PRODUCT CHARACTERISTICS:

Color	Light-brown
Packaging	Canister with 10 l content per component A and B Canister with 20 l content per component A and B
Shelf-life and 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 and disposal	MC-Thinner PU. Water or water-based cleaning agents must not be used under any circumstances. Containers must be emptied before disposal.
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 provided here is based on our experience and correct to the best of our knowledge. It is, however, not binding. It will need to be adapted to the requirements of the individual building projects, to the specific application and to non-standard local conditions. Our data refers to the accepted engineering rules, which have to be observed during application. Given these preconditions we shall be liable for the accuracy of the information given as outlined in our sales and delivery terms and conditions. Recommendations by our employees that deviate from this information are only binding for us if they have been confirmed in writing. In all cases, the generally accepted rules and practices reflecting the current state of the art must be adhered.

Edition **01/2024**. Some technical changes have been made to this print medium. Older editions are invalid and may not be used.