

# MC-Injekt 2300 rapid

Ductile and flexible injection resin for the durable waterproofing of concrete and masonry



## PRODUCT PROPERTIES

- Particularly low-viscosity polyurethane-based elastomer resin
- Very good injectability
- High penetration activity due to low surface tension
- Water-displacing, no foam formation
- Variable control of reaction times
- Complete curing under dynamic loading
- High elasticity
- Corresponds to fire class B2 according to DIN 4102 in the injection medium
- Durable water impermeability
- CE conformity according to EN 1504-5: CE U(D2) W(1) (1/2/3/4) (5/40)
- General building authority approval issued by the DIBt for substances resistant to chemical attack in LAU facilities (facilities for the storage, filling and handling of liquid substances hazardous to water)
- General building authority approval issued by the DIBt for injection into soil and groundwater
- REACH exposure: water contact permanent, inhalation periodic, processing and application
- Environmental Product Declaration EPD

## AREAS OF APPLICATION

- Ductile, flexible filler and sealant of cracks, construction joints and cavities in concrete and masonry under dry, water-bearing and pressurised water-bearing conditions
- Injection work in accordance with EN 1504-5, DAfStb (repair guidelines), ZTV-ING (contract guidelines for civil engineering works)
- Grouting of injection tubes and hoses
- Waterproofing of hydraulic structures
- Waterproofing of masonry against moisture penetration and rising damp
- Waterproofing of pipe and liner connections to manhole/shaft structures of sewerage infrastructure
- Sealing injection of manhole ring joints, pipe penetrations, socket joints

## APPLICATION ADVICE

**Preparatory measures:** Prior to injection, an investigation of the structure and any leaks must be carried out according to the state of the art and the rules of technology and an injection concept must be planned. Packers must be set before injection. A trial injection is recommended.

**Mixing the components:** Components A and B of MC-Injekt 2300 rapid are mixed as they pass through the mixing head of the injection pump (mixing distance  $\geq 20$  cm inline static mixer). Only batches of the components produced at the same time may be mixed with one another.

The pot life/working time of the mixed resin depends on the quantity involved and the prevailing ambient temperature. The working time can be extended by cooling the resin components and the resin mixture.

**Delayed reaction:** The reaction time of MC-Injekt 2300 rapid can be extended by mixing component A of MC-Injekt 2300 rapid with component A of MC-Injekt 2300 top. The slowest setting achievable is governed by the reaction time of the MC-Injekt 2300 top component.

**Injection:** Injection is performed with the two components being mixed as they are dispensed by the MC-I 710.

MC-Bore Packer DS 14 bore packers are recommended for injection into components.

Application work should cease once component/substrate temperatures fall below 5 °C.

Ensure compliance with the information given in the specifications and the Safety Data Sheets.

**Equipment cleaning:** Within the working time, all solvent-resistant equipment can be cleaned with MC-Cleaner eco or thinner product MC-Verdünnung PU. Material that has reacted or set will need to be removed mechanically.

## TECHNICAL VALUES & PRODUCT CHARACTERISTICS

| Characteristic               | Unit               | Value               | Comments                          |
|------------------------------|--------------------|---------------------|-----------------------------------|
| Mixing ratio                 | parts by volume    | 1 : 1               | comp. A : comp. B                 |
|                              | mass fractions     | 100 : 111           | comp. A : comp. B                 |
| Density                      | kg/dm <sup>3</sup> |                     | DIN 53479                         |
|                              |                    | approx. 1.04        | mixture                           |
|                              |                    | approx. 0.98        | component A                       |
|                              |                    | approx. 1.09        | component B                       |
| Viscosity                    | mPa·s              | approx. 55          | EN ISO 3219                       |
| Working time                 | minutes            | approx. 2           | EN 1504-5 (up to 1,000 mPa·s)     |
| Application conditions       | °C                 | 5 - 40              | component and subsoil temperature |
| Strain (free)                | %                  | approx. 100         | EN ISO 527                        |
| Strain (in the crack)        | %                  | approx. 11 - 17     | EN 12618-2                        |
| Strain (with water)          | %                  | approx. 4           | EN 14 406                         |
| Tensile strength             | N/mm <sup>2</sup>  |                     | EN 12618-1                        |
|                              |                    | approx. 0.46 - 1.31 | concrete dry, moist               |
| Surface tension              | mN/m               | 34.651              | Krüss Processor, Tensiometer K100 |
| Reaction time, pot life      | minutes            |                     | ASTM D7487                        |
|                              |                    | approx. 4           | at 20° C and 50 % rel. humidity   |
| Glass transition temperature | °C                 | -34.2               | EN ISO 11357-2                    |

All technical values are laboratory results determined at 21°C ±2°C and 50% relative humidity.

|                          |  |
|--------------------------|--|
| Colour                   | light brown  |
| Equipment cleaning agent | MC-Verdünnung PU (thinner), under no circumstances should water or aqueous cleaning agents be used                       |
| Delivery form            | Box of 6 x 1 l packs<br>Canister with 10 l content per component A and B   |
| Storage                  | Can be stored in original sealed packages at temperatures between 5°C and 30°C in dry conditions for at least 18 months. |
| Packaging disposal       | Make sure single-use containers are completely empty.  |

### Safety instructions

Please note the safety information and advice given on the packaging labels and safety data sheets. GISCODE : PU40

**Note:** The information contained in this data sheet is based on our experience and is correct to the best of our knowledge. It is, however, not binding. It will need to be adapted to the requirements of the individual structure, to the specific application and to non-standard local conditions. Application-specific conditions must be checked in advance by the planning engineer/specifier and, where different from the standard conditions indicated, will require individual approval. Technical advice provided by MC's specialist consultants does not replace the need for a planning review by the client or its agents in respect of the history of the building or structure. Subject to this prerequisite, we are liable for the correctness of this information within the framework of our terms and conditions of sale and delivery. Recommendations of our employees deviating from the information given in our data sheets are only binding for us if they are confirmed in writing. In all cases, the generally accepted rules and practices reflecting the current state of the art must be observed. The information given in this technical data sheet is valid for the product supplied by the country company listed in the footer. It should be noted that data in other countries may differ. The product data sheets valid for the relevant foreign country must be observed. The latest technical data sheet shall apply to the exclusion of previous, duly superseded versions; the date of issue in the footer must be observed. The latest version is available from us on request or may be downloaded from our website. [2400020522]