

MC-Injekt 1264 compact

Rigid bonding and sealing injection resin



PRODUCT PROPERTIES

- Low-viscosity epoxy-based duromer resin
- Good injectability
- High penetration activity due to low surface tension
- Optimum moisture tolerance
- Rapid strength development
- Complete curing under dynamic loading
- High compressive and tensile strength
- Liquid-tight
- Chemically resistant
- REACH exposure: Inhalation periodic, processing and application
- Environmental Product Declaration EPD

AREAS OF APPLICATION

- Rigid filling by injection or impregnation of cracks, joints and limited cavities civil and structural engineering works under dry and moisture-laden conditions
- Injection work in accordance with EN 1504-5 and German codes DAfStb (repair guidelines) and ZTV-ING (contract guidelines for civil engineering works)
- Reinforcement and waterproofing of underground infrastructure made of concrete and masonry (manhole and shaft structures, sewer structures)
- Grouting with injection tubes and hoses

APPLICATION ADVICE

Preparatory measures: Prior to injection, the structure must be examined according to the state of the art and the rules of technology and an injection concept must be planned. Packers must be placed before injection. A trial injection is recommended.

Mixing the components: The components A and B of MC-Injekt 1264 compact should be homogeneously mixed with each other in the specified mixing ratio with slowly rotating stirring paddles or similar for subsequent one-component injection. The mixing time is 1 minute.

Mixed reactive resin must be repotted into a clean, empty container or into a container in which mixed resin of the same quality has been stored. Repotting is completed once the resin is transferred into the reservoir of an injection pump and briefly remixed.

The pot life/working time of the mixed resin depends on the quantity involved and the prevailing ambient temperature. Cooling the resin components and the resin mixture extends the working time for single-component application.

In the case of two-component application, the components are mixed as they pass through the mixing head of the injection pump (mixing distance ≥ 20 cm inline static mixer). There is no need to stock mixed resins. The working time is longer due to the small amount of mixed resin.

Injection: Injection is carried out with injection pump MC-I 520 (1-component pump) or a 2-component pump with a mixing ratio of 4:1 parts by volume.

The choice of the appropriate injection packer depends on the required injection pressure. MC-Adhesive Packer HP is recommended for the low to medium pressure (up to 60 bar) range. For injection with high injection pressures (up to 200 bar), preference should be given to the MC-Bore Packer DS 14.

Application work should cease once component/substrate temperatures fall below 8 °C.

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

Equipment cleaning: The injection pump and all solvent-resistant tools can be cleaned with MC Cleaner eco or thinner product MC-Verdünnung EP. 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	4 : 1	comp. A : comp. B
Density	kg/dm ³	approx. 1.08 approx. 1.12 approx. 0.95	EN ISO 2811-1 mixture component A component B
Viscosity	mPa·s	approx. 310	EN ISO 3219
Working time	minutes	approx. 25	related to 100 g
Application conditions	°C	8 - 35	component and subsoil temperature
Compressive strength	N/mm ²	approx. 60	EN ISO 604
Surface tension	mN/m	24.038	Krüss Processor, Tensiometer K100
Ultimate elongation	%	approx. 6.1	DIN 53 455
E-modulus	N/mm ²	approx. 2,600	EN ISO 178
Tensile strength	N/mm ²	approx. 45.7	DIN 53 455
Glass transition temperature	°C	approx. 55	EN ISO 11357-2

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

Colour	transparent
Equipment cleaning agent	MC-Verdünnung EP (thinner), under no circumstances should water or aqueous cleaning agents be used
Delivery form	Box of 6 x 1 l packs 10 l canister, component A 2.5 l canister, component B
Storage	Can be stored in original sealed packages at temperatures between 10°C and 30°C in dry conditions for at least 24 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 : RE30

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. [2400020517]