

MC-Injekt 2133 flex

Highly elastic sealing, one-component injection resin for concrete, masonry and foundation soil



PRODUCT PROPERTIES

- One-component elastic expansion polyurethane-based resin
- Very good injectability in water-filled cracks (surfing effect)
- Unlimited processing time without contact with water
- Water-displacing water reactive
- Closed-cell, durable water impermeability
- High elasticity
- Corresponds to fire class B2 according to DIN 4102 in the injection medium
- Phthalate plasticiser-free
- CE conformity according to EN 1504-5: CE (D), U (D1) W (3) (1/2/3/4) (5/40)
- 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

- Permanent, highly elastic sealing injection of water-bearing cracks and cavities from approx. 0.3 to approx. 5 mm in concrete and masonry under dry and water-bearing conditions
- Sealing of rock, foundation soil, construction pit enclosures and structures in tunnel and special civil engineering
- Flat sealing of contact surfaces between sealing foils and structures
- 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, the foundation soil or rock 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. The areas to be injected must contain water. Dry structures require the pre-injection of water. A trial injection is recommended.

Mixing the components: MC-Injekt 2133 flex is ready for immediate use. The processing time is unlimited without contact with water. MC-Injekt 2133 flex only begins to react when it meets water.

Injection: Injection of MC-Injekt 2133 flex is performed on a 1-component basis with the MC-I 520 into water-bearing structures or foundation soil. Dry components must first be filled with water. The storage container must remain closed during processing in order to prevent the ingress of water. A skin can form on the resin surface due to humidity. This protects the resin underneath from further reaction with moisture. Solid components must not be sucked into the pump.

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
Density	kg/dm ³	approx. 1.03	EN ISO 2811-1
Viscosity	mPa·s	approx. 800	EN ISO 3219
Application conditions	°C	5 - 40	component and subsoil temperature
Strain (free)	%	66	EN ISO 527-1
Strain (in the crack)	%	21 - 39	EN 12618-2
Volume change	%	approx. 1,800	free-foaming
Tensile strength	N/mm ²		EN 12618-1
		approx. 0.15	concrete dry, moist
Foaming start/end	seconds	approx. 30 - 180	Commencement on contact with water
Injection viscosity (with water film)	mPa·s	approx. 260	ES ISO 3219
Water requirement (reactive)	%	approx. 1.3	

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

Colour	yellowish brown
Equipment cleaning agent	MC-Verdünnung PU (thinner), under no circumstances should water or aqueous cleaning agents be used
Delivery form	10 l Canister
Storage	Can be stored in original sealed packages at temperatures between 5°C and 35°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. GHS CODE : 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. [2400020521]