

# MC-Injekt PowerSeal F

Highly elastic sealing, one-component injection resin for concrete, masonry and building ground



## PRODUCT PROPERTIES

- One-component water-reactive polyurethane-based injection resin
- Good injectability into water-filled cracks
- Unlimited working time
- Strong volume increase on contact with water
- Self-injection effect through Water Boost Technology
- Immediate and permanent waterproofing success
- Highly elastic with close pore structure
- Conforms to fire class B2 according to DIN 4102 in the injection medium
- CE conformity according to EN 1504-5: U (D1) W (3) (2/3/4) (5/40)
- Groundwater-hygienically harmless for injection into soil and groundwater
- REACH exposure: water contact permanent, inhalation periodic, processing

## AREAS OF APPLICATION

- Highly elastic sealing injection of cracks and gaps from approx. 0.3 to approx. 5 mm in concrete and brickwork
- Water-stopping and permanently sealing injection against flowing and pressing water
- Sealing of rock, subsoil, excavation pits and structures in tunneling and special foundation engineering
- Sealing of interstices and joints of up to approx. 5 mm in thickness
- Sealing of masonry with injection
- Sealing of shaft structures and canals with injection

## APPLICATION ADVICE

**Preparatory measures:** Prior to injection, an investigation of the structure, subsoil or rock or of the leaks must be carried out in accordance with the state and rules of the art. Packers must be set for the injection. The areas to be injected must contain water. Dry structures require pre-injection of water. Trial injection is recommended.

**Injection:** MC-Injekt PowerSeal®F is injected as a single component directly into wet or water-filled components or building ground. The working time is unlimited without water contact. Storage tanks and open resin containers must be protected against water ingress during processing. Air humidity can cause a skin to form on the resin surface. This protects the resin underneath from further reaction with moisture. Solid components must not be sucked into the pump.

MC-Injekt PowerSeal®F reacts rapidly and expansively with water. Expansion will propel the resin in addition to the injection pressure. Sealing takes place in a single operation. No post-injection is required.

MC-Bore Packer DS 14 or MC-Bore Packer LS 18 are recommended for injection.

The injection is carried out as a single component with MC-I 520.

At component/substrate temperatures < 5 °C, the application of MC-Injekt PowerSeal®F must be discontinued.

Packers can be removed quickly if water is injected into the bore channel after resin injection, thus causing the remaining resin to react.

Instructions in the design specifications and material safety data sheets must be followed.

**Equipment cleaning:** Within the reaction time, all equipment can be cleaned with MC-Cleaner eco or MC-Thinner PU. Material that has reacted or set can only be removed mechanically.

## TECHNICAL VALUES & PRODUCT CHARACTERISTICS

Characteristic	Unit	Value	Comments
Density	kg/dm <sup>3</sup>	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. 850	free-foaming
Tensile strength			EN 12618-1
		approx. 0.15	concrete dry, moist
Surface tension	mN/m	23	hanging drop
Foaming start/end	seconds	approx. 30 - 180	Commencement on contact with water
Tensile strength	N/mm <sup>2</sup>	0.52	
Injection viscosity	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 12 months.
Packaging disposal	Videz complètement les emballages perdus. Consultez à ce sujet notre fiche d'information "Reprise des emballages de transport et de vente vides". Nous vous l'enverrons volontiers sur demande.

### 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. [2400021189]