

MC-Injekt GL-95

Swelling, flexible, waterproofing acrylate gel sealant for injection in concrete, masonry and foundation soil



PRODUCT PROPERTIES

- Very low-viscosity acrylic-based hydrogel
- Very good injectability
- Readily controllable injection path propagation thanks to controllable reaction time
- Very low application temperature
- Reliable sealing/waterproofing due to high elasticity and good swelling capacity
- Durably water-impermeable in moist media
- General building authority approval issued by DIBt for injection into soil and groundwater
- Fulfils the UBA (German environmental agency) guidelines for sealants in contact with potable water
- High chemical resistance especially in highly alkaline environments
- REACH exposure: water contact permanent, inhalation periodic, processing and application
- Environmental Product Declaration EPD

AREAS OF APPLICATION

- Swelling flexible filling sealant for cracks and cavities in permanently damp concrete and masonry
- Subsequent vertical sealing of masonry
- Subsequent formation of a horizontal barrier/DPC in masonry
- Injection of waterproofing membrane into interstitial spaces between buildings
- Injection of waterproofing membrane into foundation soil (curtain injection)

APPLICATION ADVICE

Preparatory measures: Prior to injection, an investigation of the structure and of 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 GL-95 are prepared from their respective subcomponents in the specified mixing ratio. Component A is mixed from subcomponents A1, A2 and A3. To do this, pour component A2 and A3 into the container of component A1 and stir energetically with a wooden paddle. Component B is dissolved in water and mixed with a wooden paddle. The reaction times of MC-Injekt GL-95 depend on the volume of component B added to water.

Mixing of the components A and B thus prepared takes place during injection: The components are mixed as they pass through the mixing head of the MC-I 710 injection pump (mixing distance ≥ 10 cm inline static mixer).

Reaction time with addition of component B in 25 l or 100 l of water

%	25 l water	100 l water	reaction time
approx. 0,2 %	0,05 kg	0,2 kg	approx. 90 s
approx. 0,5 %	0,125 kg	0,5 kg	approx. 47 s
approx. 1 %	0,25 kg	1,0 kg	approx. 30 s
approx. 2 %	0,5 kg	2,0 kg	approx. 21 s
approx. 4 %	1,0 kg	4,0 kg	approx. 16 s

Delayed reaction: The reaction time of MC-Injekt GL-95 can be extended with MC-Injekt Retarder GL. The retarder is added to the ready-mixed component A. The amount added determines the delayed reaction time. This mixture can be used within 2 hours. When using the retarder, the concentration of component B of 0.5% must be adhered to.

APPLICATION ADVICE

Reaction time when adding MC-Injekt Retarder GL in 30.1 kg or 120 kg component A

%	30,1 kg	120 kg	reaction time
2,5 %	0,75 kg	3 kg	ca. 9 min
3 %	0,90 kg	4 kg	ca. 17 min
5 %	1,50 kg	6 kg	ca. 50 min

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

MC-Hammer Packer LP 18 or MC-Hammer Packer LP 12 packers are recommended for injection into building components.

MC-Bore Packer LS 18 packers or injection lances are recommended for injection into foundation soil.

Application work should cease once component/subsoil temperatures fall below 1 °C.

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

Equipment cleaning: Within the working time of the resin, all tools can be cleaned with water or air. 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 in solution
	mass fractions		
Canister		27.6 : 0.5 : 2	comp. A1 : comp. A2 : comp. A3
Drum		110 : 2 : 8	comp. A1 : comp. A2 : comp. A3
Canister (variable)		30.1 : 25,125	comp. A : comp. B in solution
Drum (variable)		120 : 100.5	comp. A : comp. B in solution
		0.5 : 100	comp. B : water (standard)
Density	kg/dm ³		DIN 53479
		approx. 1.1	mixture
		approx. 1.2	component A1
		approx. 0.97	component A2
		approx. 1.06	Component A3
		approx. 1.2 - 1.5	comp. B (bulk density)
Viscosity	mPa·s	approx. 5	EN ISO 3219
Working time	seconds	approx. 16 - 90	
Application conditions	°C	1 - 40	component and subsoil temperature
PH value		approx. 9.5	cured product

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

Colour	blue
Equipment cleaning agent	water
Delivery form	MC-Injekt GL-95, component A1, 27.6 kg and 110 kg containers MC-Injekt GL-95, component A2, box of 4 x 0.5 kg containers MC-Injekt GL-95, component A3, 2 kg and 8 kg containers

Delivery form	MC-Injekt GL-B, component B, box of 4 x 0.5 kg containers MC-Injekt Retarder GL, 5 kg container
Storage	Can be stored in original sealed packages at temperatures between 5°C and 25°C in dry conditions for at least 12 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.

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. [2400020525]