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.
- Fulfills 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 NOTES:

- **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 respec- tive 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 energeti- cally 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 25L or 100L of water:**

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

- **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 de- layed reaction time. This mixture can be used within 2 hours. When using retarder, the concentration of component B of 0.5% must be adhered to.

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%	0,75kg	3kg	ca. 9 mins
3%	0,90kg	4kg	ca. 17 mins
5%	1,50kg	6kg	ca. 50 mins

- **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.
- **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.

TECHNICAL DATA:

Characteristic	Unit	Value	Comments
Mixing ratio	Parts by volume	1 : 1	Comp. A : Com. B in solution
Canister	Mass fractions	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 0.5 : 100	Comp. A : Comp. B in solution Comp. B : Water (standard)
Density	Kg/dm^3	 Approx. 1.1 Approx. 1.2 Approx. 0.97 Approx. 1.06 Approx. 1.2 - 1.5	DIN 53479 Mixture Component A1 Component A2 Component A3 Comp. B (bulk density)
Viscosity	mPa·s	Approx. 5	EN ISO 3219
Working time	seconds	Approx. 16 - 90	
Application conditions	^0C	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.*

PRODUCT CHARACTERISTICS:

Color	Blue
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 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. Ensure compliance with our information leaflet "Return of Emptied Transportation and Sale Packaging". We will be glad to send you this on request.

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