MC-Injekt GL-93

Soft Elastic Sealing Injection Resin

Product Properties

- Low viscosity, acrylic-based hydro-structural resin
- Short controllable reaction time
- Highly flexible when cured
- Fulfils UBA-guideline for sealing in contact with drinking water
- Fulfils requirements of the WTA-leaflet “Masonry injection against capillary moisture“

Areas of Application

- Supplementary exterior sealing of ground-connected structural parts through area-measured ground-gelling
- Sealing injection of cracks and cavities in masonry and concrete
- Subsequent sealing by horizontal barrier and, where necessary, vertical barrier against rising moisture in masonry
- REACh-assessed exposure scenarios: water-contact long-term, inhalation periodical, application

Application

Preparation
Before injection the structure’s cracks and voids have to be inspected according to technical standards and regulations and an injection proposal is to be planned.

Mixing
MC-Injekt GL-93 is a multi-component injection system consisting of Component A and Component B which are mixed from sub-components at the construction site.

Component A is mixed from sub-components A1 and A2.The sub-component A2 is added into component A1 and then intermixed by using a wooden paddle.

Component B is dissolved in water. The concentration of the solution determines the reaction time. Reaction times also depend on temperature

Component B, dissolved in 100 l water	**Reaction time at 20 °C**
4.0 kg (4.0 %)	approx. 19 s
2.0 kg (2.0 %)	approx. 32 s
1.0 kg (1.0 %)	approx. 56 s
0.5 kg (0.5 %)	approx. 95 s
0.2 kg (0.2 %)	approx. 3 min 43 s

Retarding of reaction
For special areas of application the reaction of MC-Injekt GL-93 can be retarded with MC-Injekt Retarder GL. The added amount determines the reaction time. The retarder is added in the ready-mixed component A. It is recommended to process the retarded mixture within 2 hours. When using the retarder the concentration of component B in water is 0.5 %.

MC-Injekt Retarder GL in 104 kg component A	**Reaction time at 20 °C**
0.4 kg	approx. 2 min 30 s
1.2 kg	approx. 3 min
2.0 kg	approx. 5 min
2.8 kg	approx. 13 min
4.8 kg	approx. 98 min

Injection
MC-Injekt GL-93 should be applied using a 2-c-pump, e.g. MC-I 700 (observe type and quantity of mixer elements). At sufficiently long retarding of reaction time, the MC-Inject GL-93 can also be injected with a 1-c-pump, e.g. MC-I 510. For the injection MC-Schlagpacker or MC-Hammerpacker LP are recommended.

Extensive information on working with the resin can be found in the application instructions for MC-Injekt GL-93.

Machine Cleaning
Within the application time all equipment may be cleaned with water. Partially and completely cured material can only be removed mechanically.

MC-Bauchemie • Am Kruppwald 1-8 • 46238 Bottrop • Tel. +49 (0) 2041-101 10 • Fax: +49 (0) 2041-101 188
info@mc-bauchemie.de • www.mc-bauchemie.de

Technical Data for MC-Injekt GL-93

Characteristic	Unit	Value*	Comments
Mixing ratio	parts by weigth parts by weight parts by weight	100 : 4 0.5 : 87 1 : 1	comp. A1 : comp. A2 comp. B : water (standard) comp. A : comp. B-solution
Density	kg/dm³	approx.1.1	DIN 53 479
Viscosity	mPa·s	approx. 5	DIN EN ISO 3219
ph-value		approx. 8.6	cured product
Application time	seconds	approx.19 - 223	
Application temperature	°C	+ 1 - + 40	air, substrate and material temperature

* All technical values relate to 20 °C and 50 % relative humidity.

Product Characteristics for MC-Injekt GL-93

Cleaning agent	Within the application time all equipment may be cleaned with water. Partially and completely cured material can only be removed mechanically	
Colour	red	
Delivery	MC-Injekt GL-93, component A1 MC-Injekt GL-93, component A2 MC-Injekt GL-93, component B MC-Injekt Retarder GL	25 kg and 100 kg pack Box à 4 x 1 kg pack, 4 kg pack Box à 4 x 0.5 kg pack 5 kg pack
Storage	Can be stored in original sealed packages at temperatures between + 5 °C and + 25 °C in dry conditions for at least 1 year.	
Disposal	Packs must be emptied completely.	

Safety Advice
Please take notice of the safety information and advice given on the packaging labels and safety data sheets.

Edition 04/12. Some technical changes have been made to this print medium. Older editions are invalid and may not be used anymore. If a techni-cally revised new edition is issued, this edition becomes invalid.

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