

MC-Quellmittel 100

Injection aids and expansive agent.

PRODUCT PROPERTIES:

- Capable of swelling.
- Non-shrinkage.
- Reduce the separation of water bleeding from the mixture and increase fluidity without segregation.
- Increase the waterproofing and non-corrosion ability of concrete structures.

AREAS OF APPLICATION:

- Temporary and permanent rock and soil anchoring.
- Grouting for sonic piles.
- Durable and dense filling of all cavities.
- Protective action against corrosion of the prestressing wires.
- Non-shrink grout production even if sand is added into the grout mixture.

APPLICATION NOTES:

- **MC-Quellmittel 100** is a special product capable of increasing flexibility, making pumped mortar or combined with other MC-BIFI admixture to make concrete, mortar with different technical requirements.
- Production of insert concrete, the mortar does not shrink when sand is added to the liquid mortar mixture.
- Typical mix designs:
 - Without sand: **MC-Quellmittel 100**: 4% /cement; W/C ratio: 0,35-0,38.
 - With sand: **MC-Quellmittel 100**: 4-5%/cement; W/C ratio: 0,40-0,45; Sand/cement ratio: 1/1.
- Mixing sequences are as follows: water, **MC-Quellmittel 100**, and then cement slowly added while mixing. In case of use sand, it must be added after cement. Allow sufficient mixing time to get a mixture showing homogeneous consistency.
- Concrete surfaces should be clean, sound and free from oil, grease, laitance, and loose particles. Metal should be free from scale, rust, oil and grease.
- Tough the concrete surface and saturate the concrete surface after it has been roughened before applying.
- Use an appropriate mixer and do not mix by hand. If assistance is required, please contact our Technical Service Department.
- Mix in the mixer for 3 minutes so that the pure mixture meets the required flow rate.
- Should be constructed immediately after mixing the mortar to achieve the highest efficiency, during the construction process must ensure a continuous flow of mortar.
- Curing the exposed surface of the mortar as soon as it dries, avoid the surface to dry out prematurely.
- **MC-Quellmittel 100** does not contain any hazardous substances. It is safe for use with standard precautions followed in the construction industry, such as use of hand gloves, safety goggles, etc.
- Avoid contact with foodstuffs and utensils. Avoid prolonged skin contact. In the event of contamination, wash thoroughly with water. If the eyes or mouth are affected, wash with clean water and obtain medical attention immediately.

TECHNICAL DATA:

Characteristic	Unit	Value	Comments
Apparent density	g/cm ³	2.45	
Recommended dosage	kg	2 – 8	per 100 kg of binder

PRODUCT CHARACTERISTICS:

Consistency	Powder
Expiry	8 months
Form of delivery	20kg/ bag

Property specifications are based on laboratory tests and may vary in practical application. To determine the individual technical suitability, preliminary suitability tests should be carried out under the application conditions.

Note: The information on this data sheet is based on our experiences and correct to the best of our knowledge. It is, however, not binding. It has to be adjusted to the individual structure, application purpose and especially to local conditions. Our data refers to the accepted engineering rules, which have to be observed during application. This provided we are liable for the correctness of this data within the scope of our terms and conditions of sale-delivery-and-service. Recommendations of our employees which differ from the data contained in our information sheets are only binding if given in written form. The accepted engineering rules must be observed at all times.

Edition **11/23**. Some technical changes have been made to this print medium. Older editions are invalid and may not be used anymore. If a technically revised new edition is issued, this edition becomes invalid.