

# MC-RockMortar HS

Highly sulphate resistant, microsilica-modified sculpting mortar



## PRODUCT PROPERTIES

- One-component, only to be mixed with water
- Application by hand and wet spraying technique
- High carbonation resistance
- Low active alkali content
- Resistant to temperature, frost-thaw and de-icing salts
- High water retention
- Open to water vapour diffusion and impermeable to water
- Easy application and excellent adhesion properties
- Available in various colours
- Non-flammable according to EN 13501-1 - building material class A1
- Registered with DGNB (Code: 8J4CC1)
- Class R3 according to EN 1504 part 3

## AREAS OF APPLICATION

- Fine and precise sculpting works at statically mechanically and sulphate loaded artificial rock surfaces, e.g. seawater areas
- Certified according to EN 1504 part 3 for principle 3 and 7, procedure 3.1, 3.3, 7.1 and 7.2

## APPLICATION ADVICE

**Substrate preparation:** The substructure is dependent on the project and must be prepared by the customer.

**Mixing:** MC-RockMortar HS is added to the prepared water under constant stirring and mixed until a homogeneous and lump-free mortar is achieved. Forced action mixers or slowly rotating double mixers must be used for mixing. Mixing by hand and preparation of partial quantities is not permitted. Mixing takes 3 minutes.

**Mixing ratio:** Please see "Technical Data" table. For a 25 kg bag of MC-RockMortar HS approx. 3.25 to 3.5 litres of water are required. As with other cement-bound products the quantity of added water may vary.

**Application:** MC-RockMortar HS can be applied by hand or wet spraying. The material may be applied in one or more layers. A worm pump with adjustable discharge flow is advised for spray application. Please request our assistance.

**Finishing:** Following application MC-RockMortar H may be smoothed and finished using a wooden or plastic float.

**Curing:** MC-RockMortar HS must be protected from too fast drying due to direct sun exposure and wind. Conventional curing time is 3 days.

## TECHNICAL VALUES & PRODUCT CHARACTERISTICS

Characteristic	Unit	Value	Comments
Maximum grain size	mm	4	
Fresh mortar bulk density	kg/dm <sup>3</sup>	2.17	
Mixing ratio	p.b.w.	100 : 13 - 14	powder component : water
Working time	minutes	60	at 5° C
		45	at 20 °C
		30	at 30 °C
Application conditions	°C	≥ 5 ≤ 30	Temperatura del aire, soporte y material
Consumption	kg/m <sup>2</sup> /mm	2	factory-dried mortar
Flexural strength	N/mm <sup>2</sup>		
28 d		6.5	
Compressive strength	N/mm <sup>2</sup>		
28 d		46.8	
E-modulus (dynamic)	N/mm <sup>2</sup>	25,100	after 28 days

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

Colour	grey
Form	pulverous
Delivery form	25 kg bag
Storage	Can be stored in cool and dry conditions for at least 12 months in original unopened packs.
Packaging disposal	Make sure single-use containers are completely empty.

GISCODE : ZP1

**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. [2400020902]