

MC-RockMortar HS

Highly sulphate resistant, microsilica-modified sculpting mortar



PRODUCT PROPERTIES

- Specialty mortar for decorative applications
- Single-component, mixes with water only
- Can be applied by hand or using a wet spraying method
- High resistance to carbonation
- Low effective alkali content
- Resistant to temperature extremes, frost, and de-icing salt
- High water retention capacity
- Vapor-permeable and water-impermeable
- Can be pigmented with MC-Pigment M
- High stability
- High adhesion
- Scratch, scratch-and-polish, and sandable
- Easy to apply, excellent substrate adhesion
- Available in various colors
- Non-combustible according to DIN EN 13501-1, building material class A1
- DGNB-registered (registration code: 8J4CC1)
- Class R3 based on DIN EN 1504 Part 3

AREAS OF APPLICATION

- Suitable for delicate sculpting work on artificial rock surfaces subjected to static, mechanical, and sulfate stress, e.g., in seawater environments
- Indoor and outdoor use
- Freshwater and saltwater pools
- Facade design, such as artificial rock masonry, bossed plaster, brickwork, or sculptural structures
- Modeling of historical architectural elements, profiles, or decorative elements
- Creation of sculptures, reliefs, or sculptural artworks
- Certified according to DIN EN 1504 Part 3 for Principles 3 and 7, Methods 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 ³	2.17	
Mixing ratio	mass fractions	approx. 25 : 3.25 - 3.5	powder component : water
Working time	minutes	60	at 5° C
		45	at 20 °C
		30	at 30 °C
Application conditions	°C	≥ 5 ≤ 30	air, substrate and material temperatures
Consumption	kg/m ² /mm	2	factory-dried mortar
Flexural strength	N/mm ²		
28 d		6.5	
Compressive strength	N/mm ²		
28 d		46.8	
E-modulus (dynamic)	N/mm ²	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 in this data sheet must be adapted by the installer, specialist planner, and/or building inspector to the respective construction project, intended use, and specific local conditions. Any non-standard local conditions must be taken into account, and application-specific conditions must be reviewed in advance by the planner/specifier. Deviations from the specified standard conditions 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. [2600032122]