



# MC-RockMortar HS

Highly sulphate resistant, microsilica-modified repair and sculpting mortar

## Product Properties

- One-component, only to be mixed with water
- Application by hand and wet spraying technique
- Highly carbonation resistance
- Resistant to temperature, frost-thaw and de-icing salts
- High water retention
- Open to water vapour diffusion and impermeable to water
- Low active alkali content
- Non-flammable according to EN 13501-1 - building material class A1
- Class R3 according to EN 1504 part 3

## Areas of Application

- Main area of application: fine and precise sculpting works at static-mechanically and sulphate-loaded artificial rock surfaces, e.g. climbing- and playground rocks
- Suitable for partial and large-scale repair of concrete components in statically relevant and non-statically relevant areas
- Suitable for repair and creation of bonded and sloped screeds, e.g. on balconies
- Suitable according to EN 206 for exposure classes XC 1-4, XS 1, XD 1-2, XF 1-4 and XA 1-3
- Certified according to EN 1504 part 3 for principle 3 and 7, procedure 3.1, 3.3, 7.1 and 7.2

## Application

### Substrate preparation

See leaflet "General Application Advice Coarse Mortars/Concrete Replacement Systems".

### Bond coat

For hand application Nafufill BC is to be used as bond coat. See leaflet "General Application Advice Coarse Mortars/Concrete Replacement Systems".

### 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 HS may be smoothed and finished using a wooden or plastic float or a porous sponge rubber squeegee.

### Curing

MC-RockMortar HS must be cured for 3 days using moist jute and plastic foil. The jute must not dry out during this time and must be kept moist.

Alternatively a liquid curing agent may be used, if structurally possible.



## Technical Data for MC-RockMortar HS

Characteristic	Unit	Value*	Comments
Largest grain size	mm	4	
Fresh mortar density	kg/dm <sup>3</sup>	2.08	
Flexural tensile-/ compressive strength	N/mm <sup>2</sup>	3.8 / 20.6 6.5 / 40.0	after 7 days after 28 days
Dynamic E-modulus	N/mm <sup>2</sup>	25,100	after 28 days
Coverage (dry mortar)	kg/m <sup>2</sup> /mm	1.82	
Application time	minutes	60 45 30	at + 5 °C at + 20 °C at + 30 °C
Layer thickness**	mm	12 30 60 60	min. layer thickness per work step max. layer thickness per work step max. total layer thickness reprofiling of disruptions
Application conditions	°C	≥ 5 to ≤ 30	air-/material-/substrate temperature
Mixing ratio	p.b.w.	100 : 13 - 14	MC-RockMortar HS : water

## Product Characteristics for MC-RockMortar HS

Colour	cement-grey
Delivery	25 kg bags
Storage	Can be stored in cool and dry conditions for 12 months in originally sealed packs.
Disposal	Packs must be emptied completely.

\* All technical values have been determined at + 23 °C and 50 % relative humidity.

\*\* In the field of sculpting please request our assistance.

**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 12/17. 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.