



# MC-RockMortar L

Highly sulphate resistant, microsilica-modified waterproof, levelling and sculpting mortar

## Product Properties

- One-component, only to be mixed with water
- Application by hand and wet spraying technique
- 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
- Available in various colours
- Non-flammable according to EN 13501-1 - building material class A1
- Class R1 according to EN 1504 part 3

## Areas of Application

- Suitable for partial and large-scale repair of brick stone and natural stone surfaces
- Suitable for partial and large-scale surface repair of concrete components in statically relevant and non statically relevant areas
- Suitable for creation of levelling layers on mineral substrates, interior and exterior
- System compatible levelling and sealing mortar for sealing according to WTA 4-6, e.g. for the formation of coverings
- Sealing mortar according to DIN 18533 and the DBC guidelines PMBC, FPD and MDS
- Suitable as joint mortar for natural stones, bricks and clinker
- Suitable as mortar for sandwich sealing e.g. in combination with Expert Proof eco
- Fine and precise sculpting works, e.g. at artificial rock surfaces
- Certified according to EN 1504 part 3 for principle 3 and 7, procedure 3.1, 3.3 and 7.1

## Application

### Substrate preparation

For the application on concrete substrates see leaflet "General Application Advice Coarse Mortars/Concrete Replacement Systems". Masonry substrates must be stable, free from dust, loose particles and any other contaminants.

### Bond coat for concrete substrates

For hand application Nafufill BC is to be used as bond coat.

### Mixing

MC-RockMortar L 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 L approx. 3.5 to 3.75 litres of water are required. As with other cement-bound products the quantity of added water may vary.

### Application

MC-RockMortar L 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 L may be smoothed and finished using a wooden or plastic float.

### Curing

MC-RockMortar L 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 L

Characteristic	Unit	Value*	Comments
Largest grain size	mm	1.2	
Fresh mortar density	kg/dm <sup>3</sup>	2.08	
Flexural tensile- / compressive strength	N/mm <sup>2</sup>	1.1 / 1.9 2.1 / 7.3 3.9 / 11.9	after 1 day after 7 days after 28 days
Dynamic E-modulus	N/mm <sup>2</sup>	19,800	after 28 days
Coverage (dry mortar)	kg/m <sup>2</sup> /mm	1.8	
Application time	minutes	60 45 30	at + 5 °C at + 20 °C at + 30 °C
Layer thickness	mm	4 30 30 50	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 : 14 - 15	MC-RockMortar L : water

## Product Characteristics for MC-RockMortar L

Colour	grey, ocher, R5 namibia red, special colours on request
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 12/18. 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.