MC-RIM H

Highly sulphate- and wastewater resistant mineral coating for horizontal and slightly sloped areas

Product Properties

- One-component
- High water retention
- Open to water vapour diffusion
- Impermeable to water, resistant to permanent water exposure
- Early strength development
- Can be spattled, smoothed, abraded and pumped
- Chloride-proof

Areas of Application

- Surface protection of horizontal concrete components (new and existing constructions) in wastewater industry with pH 14 to pH 3.5
- Suitable for interior and exterior areas
- Suitable as cement screed class CT/C60 according to EN 13813
- Suitable in accordance with EN 206, exposition classes XA1 - XA3

Application

Substrate Preparation
See leaflet "General Application Advice for Coarse Mortar / Concrete Replacement Systems".

Reinforcement
Zentrifix KMH is used as corrosion protection. See leaflet "General Application Advice for Coarse Mortar / Concrete Replacement Systems".

Pre-wetting / Bond Coat
Use Nafufill HB-HS as bond coat. See leaflet "General Application Advice for Coarse Mortar / Concrete Replacement Systems".

Mixing
MC-RIM H is added to the prepared water under constant stirring and mixed until a homogeneous and lump-free mortar is achieved. Forced mixers or slowly rotating agitators must be used for mixing. Mixing by hand or mixing of partial quantities is not permitted. Mixing takes at least 5 minutes.

Mixing Ratio
See table "Technical Data". For a 25 kg bag of MC-RIM H 2.25 to 2.5 litre of water are required. As MC-RIM H is a cementitious product, the water demand might vary.

Application
MC-RIM H may only be applied by hand. Trowels or trueing devices are to be used for application. Close and cavity-free application must be ensured. To achieve even surfaces height gauges should be used. All joints of the substructure must be taken over into the coating. At floor/wall connections covings must be formed.

Finishing
After application MC-RIM H can be smoothed and abraded with standard equipment. To increase the surface smoothness and -impermeability already abraded surfaces should be smoothed again without pressure.

Curing
Use jute and plastic foils to prevent MC-RIM H from drying out too rapidly due to direct sun and wind. Also MC-RIM NB can be used for curing. See table “Technical Data“.

Additional
For regular cleaning intervals of MC-RIM H coatings neutral cleaning agents are to be used.

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Technical Data for MC-RIM H

Characteristic	Unit	Value*	Comments
Largest grain	mm	3	
Fresh mortar density	kg/dm³	approx. 2.27	
Bending tensile strength/ Compressive strength	MPa	4.5/22.2 5.5/34.0 6.2/54.0 9.5/59.3	after 24 hours after 2 days after 7 days after 28 days
Dynamic E-modulus	MPa	34,700	after 14 days
Diffusion resistance against water vapour	m	2.38	-
Shrinkage	mm/m	0.40	after 28 days
Chloride migration coefficient	m^2/s	$4.94x10^{-12}$	
Resistance to water	days	1 2	at + 20 °C at + 10 °C
Coverage	kg/m²/mm	2.05	MC-RIM H dry mortar
Pot life	minutes	45 30 20	at + 5 °C at + 20 °C at + 30 °C
Layer thickness	mm	9 50 50	min. layer thickness per work step max. layer thickness per work step max. total layer thickness
Application conditions	°C	≥ 5 - ≤ 30	air, material and substrate temperature
Curing time	days	5	jute and foil
Mixing ratio	p.b.w.	100 9 - 10	MC-RIM H water

Product Characteristics MC-RIM H

Colour	cement-grey
Delivery	25 kg bags
Storage	Can be stored in original sealed packages in dry conditions for at least 12 months. Protect from frost! The same requirements are valid for transport.
Disposal	Packs must be emptied completely.

* All technical data relate to + 23 °C and 50 % relative humidity, material temperature between + 15 °C and + 25 °C.

Edition 01/11. 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.

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