Nafufill KMH

Corrosion protection coat and bond coat

BE SURE. BUILD SURE.

PRODUCT PROPERTIES

- One-component, only to be mixed with water
- Easy application due to spreadable consistency
- Short overcoating times
- Approved according to DVGW, work sheet W 270, W 347 and W 300
- Certified and externally monitored according to ÖVGW
- Registered with DGNB (Code: M6HPK8)
- Certified suitability as active corrosion protection coat according to DIN 50017, DIN 50018 and DIN 50021
- Approved according to ZTV-ING, part 3 „Solid Construction“ for the areas of use PCC I and PCC II and according to DafStb-repair guideline for exposure classes M 2 and M 3

AREAS OF APPLICATION

- Active corrosion protection coat for exposed concrete steel in reinforced concrete constructions
- Bond coat for concrete replacement systems for repair of new and old structures
- Suitable for interior and exterior use
- Certified according to EN 1504 part 7 for principle 11, procedure 11.1
- Corrosion protection coating in drinking water tanks, drinking water treatment plants and for concrete components in drinking water protection zones

APPLICATION ADVICE

Substrate Preparation
Reinforced Steel: The reinforced steel must be prepared to standard SA 2 1/2 according to DIN EN ISO 12944-4. There must be no rust film or other separating or corrosion-conducive materials. Compressed air blasting with solid grit is suitable to achieve the specified standard degree of cleanliness.

Substrate Preparation: See leaflet “General Application Advice Coarse Mortars / Concrete Replacement Systems“.

Mixing: Nafufill KMH is added to the prepared water under constant stirring and mixed until a homogenous and lump-free mortar with an easy-to-spread consistency is achieved. Mixing takes at least 5 minutes. Use slowly rotating mixers.

Mixing Ratio: For a 5 kg bag of Nafufill KMH approx. 0.9 to 0.95 litres of water are required, while a 20 kg bag takes approx. 3.6 to 3.8 litres. As with other cement-bound products the quantity of added water may vary.

Application
As Corrosion Protection: Nafufill KMH is applied onto the prepared reinforced steel in two work steps, using suitable painting tools (brushes, paint-brushes). Tying wires, edges and the juncture between reinforcement and concrete must be treated thoroughly to achieve the necessary layer thickness.

As Bond Coat: Before application of Nafufill KMH the substrate must be pre-wetted. Highly absorbent substrates must be pre-wetted repeatedly. Nafufill KMH must then be brushed thoroughly into the slightly damp, non-saturated, substrate. If applied onto horizontal areas ponding is not permitted and must be avoided. Do not pre-wet a larger area than can be overworked fresh-in-fresh. Short-bristled brushes are suitable for application.

If used for horizontal/floor application Nafufill KMH may also be applied by spraying, using a worm pump with a discharge flow of < 1 litre per minute. If the bond coat is applied in such a way it must be worked in subsequently, using brushes.

MC-Bauchemie Müller GmbH & Co. KG
Am Kruppwald 1-8 · 46238 Bottrop
Tel. +49 (0) 2041-101 0 · Fax: +49 (0) 2041-101 400
info@mc-bauchemie.de · www.mc-bauchemie.de

TECHNICAL VALUES & PRODUCT CHARACTERISTICS

Characteristic	Unit	Value	Comments
Mixing ratio	p.b.w.	100 : 18 - 19	powder component : water
Working time	minutes	75	at 5° C
		60	at 20 °C
		45	at 30 °C
Application conditions	°C	≥ 5 ≤ 35	
Consumption [1)]	kg/dm³		
Dry mortar		1.7	
Applied quantity	g/m	120	as a corrosion inhibitor (steel Ø 8 mm)
	g/m²	1,000 - 1,100	as a bond coat
Fresh mortar bulk density	kg/dm³	2.1	
Overworkable after	hours	approx. 3	1st layer / 2nd layer
		approx. 3	2nd layer / application of bond coat

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

1) The coverage rates depend on the roughness and temperature of the substrate, as well as on the storage- and working-temperatures. We recommend to lay sample areas to determine the object-specific coverage.

Form	pulverous
Colour	Cement grey
Delivery form	Packing unit 2 x 5 kg bags, 20 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

MC-Bauchemie Müller GmbH & Co. KG
Am Kruppwald 1-8 · 46238 Bottrop
Tel. +49 (0) 2041-101 0 · Fax: +49 (0) 2041-101 400
info@mc-bauchemie.de · www.mc-bauchemie.de