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Nafufill KMH

Corrosion protection coat and bond coat.

PRODUCT PROPERTIES:

- One-component, only to be mixed with water.
- Easy application due to spreadable consistency.
- Short overcoating times.
- 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.

APPLICATION NOTES:

- **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 20kg bag takes approx. 3.6 to 3.8 litres. As with other cement-bound products the quantity of added water may vary.
- **Application:**

1/ 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.

2/ 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.

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TECHNICAL DATA:

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

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

PRODUCT CHARACTERISTICS:

Form	Pulverous
Color	Cement grey
Packaging	Packing unit 5 kg/ bag, 20 kg/ bag
Shelf-life & Storage	Can be stored in cool and dry conditions for at least 08 months in original unopened packs.
Packaging disposal	Make sure single-use containers are completely empty.

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