



Nafufill KMH (formerly Zentrifix 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

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-conductive 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 homogeneous 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.



Technical Data for Nafufill KMH

Characteristic	Unit	Value**	Comments
Fresh mortar density	kg/dm ³	2.10	-
Coverage (dry mortar)	kg/dm ³	1.70	-
Application time	minutes	75 60 45	at + 5 °C at + 20 °C at + 30 °C
Overcoating times	hours	approx. 3 approx. 3	between 1st and 2nd coat corrosion protection coat between 2nd corrosion protection coat and application of bond coat
Total coverage*	g/m g/m ²	120 1,000 -1,100	as corrosion protection (steel ø 8 mm) as bond coat
Application conditions	°C	≥ 5 - ≤ 35	air, material and substrate temperature
Mixing ratio	p. b. w.	100 : 18 - 19	Nafufill KMH : water

Product Characteristics for Nafufill KMH

Colour	cement-grey
Delivery	2 x 5 kg bags, 20 kg bags
Storage	Can be stored in cool (below 20 °C) and dry conditions for at least one year in original unopened packs.
Disposal	Packs must be emptied completely.

* 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 values have been determined at + 23 °C and 50 % relative humidity

Safety Advice

Please take notice of the safety information and advice given on the packaging labels and safety information sheets.

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 09/19. 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.