



Nafufill KM 250 HS

Fibre-reinforced, highly sulphate-resistant PCC concrete replacement

Product Properties

- One-component, polymer-modified
- Hand and wet spray application
- Tricalciumaluminate-free binder
- Low alkali-content
- Highly resistant to carbonation and de-icing salt
- Chloride-proof
- Class R4 according to EN 1504 part 3

Areas of Application

- Concrete replacement for repair of interior and exterior areas in new and existing structures
- Concrete replacement for concrete components in contact with groundwater and soil
- Suitable according to EN 206 for exposure classes XC 1-4, XF 1-4, XD 1-3, XS 1-3 and XA 1-3
- Certified and classified acc. to EN 1504 part 3 for principles 3, 4 and 7, procedure 3.1, 3.3, 4.4, 7.1 and 7.2

Application

Substrate Preparation

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

Bond Coat

Nafufill BC should be used as bonding coat. See leaflet "General Application Advice Coarse Mortars / Concrete Replacement Systems".

Mixing

Nafufill KM 250 HS is added to the water under constant stirring and mixed until a homogenous, lump-free and workable 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 allowed. Mixing takes at least 5 minutes.

Mixing Ratio

Please see "Technical Data" table.
For a 25 kg pack of Nafufill KM 250 HS approx. 3.75 - 4.00 litres of water are required. As with other cement-bound products the quantity of added water may vary.

Application

Nafufill KM 250 HS 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 or our spraying technique equipment planner leaflet.

Finishing

After application Nafufill KM 250 HS may be smoothed and finished with a wooden or plastic float or with a porous sponge rubber squeegee. At the transition area edge of damaged spot / concrete the freshly applied mortar must be treated that subsequent products can be applied without problems.

Curing

Nafufill KM 250 HS must be prevented from drying out too rapidly and protected from direct sunlight and wind exposure. Curing usually takes 3 days.



Technical Data for Nafufill KM 250 HS

Characteristic	Unit	Value*	Comments
Largest grain size	mm	2	-
Fresh mortar density	kg/dm ³	2.00	-
Dry mortar density	kg/dm ³	1.90	-
Bending tensile/ compressive strength	MPa	6.0/38.0 7.3/56.8	after 7 days after 28 days
Dynamic E-modulus	MPa	approx. 25,000	after 28 days
Shrinkage	mm/m	0.80	after 28 days
Chloride migration coefficient	m ² /s	0,73x10 ⁻¹²	
Coverage (dry mortar)	kg/m ² /mm	1.75	
Pot life	minutes	60 45 30	at + 5 °C at + 20 °C at + 30 °C
Layer thickness	mm	6 30 60 100	min. layer thickness per work step max. layer thickness per work step max. total layer thickness reprofiling of disruptions
Application conditions	°C	≥ 5 - ≤ 30	air, material and substrate temperature
Mixing ratio	p. b. w.	100 : 15 - 16	Nafufill KM 250 HS : water

Product Characteristics for Nafufill KM 250 HS

Colour	cement-grey
Delivery	25 kg bags
Storage	Can be stored in cool (< 20 °C) and dry conditions for at least one year in originally sealed packs. Protect from frost!
Disposal	Packs must be emptied completely.

*All values have been determined in the lab 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 04/18. 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.