



Nafufill KM 130

PCC-concrete replacement for repair of horizontal surfaces in statically and non-statically relevant areas

Product Properties

- One-component, polymer-modified
- Resistant to de-icing salt, chloride-proof
- Non flammable according to EN 13501-1-building material class A2_{fl}-s1
- Statically admissible
- Application by hand and with a finisher
- Class R4 according to EN 1504 part 3

Areas of Application

- Concrete replacement in accordance with ZTV-ING, part 3 Solid Construction for PCC I applications - dynamically loaded areas - partial and extensive application
- M2/M3 - concrete replacement in accordance with DAfStb repair standard for static strengthening of concrete structures
- Repair- and anode embedding mortar in accordance with EN 12696 for repair principle "Cathodic corrosion protection of steel in concrete"
- Certified and classified according to EN 1504 part 3 for principle 3, 4 and 7, procedure 3.1, 4.4, 7.1 and 7.2
- Suitable in accordance with EN 206 for exposure classes XC 1-4, XF 1-4, XD 1-3 and XS 1-3

Application

Substrate Preparation

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

Reinforced Steel

Nafufill KM 130 is to be used as corrosion protection. See leaflet "General Application Advice Coarse Mortar / Concrete Replacement Systems".

Bond coat

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

Mixing

Nafufill KM 130 is added to the prepared water under constant stirring and mixed until homogeneous and lump-free. 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 refer to the "Technical Data" table. For a 25 kg pack of Nafufill KM 130 approx. 2.125 to 2.25 litres of water are required. As with other cementitious products the quantity of added water may vary.

Application

Nafufill KM 130 can be applied by hand or with a finishing machine. The area must, however, remain free of blow holes. To ensure an even layer thickness height gauges should be used. All joints in the substrates must be taken on into the replacement concrete replacement system. At junctions of floor and wall a joint must be formed.

General Information

Areas which are subsequently treated with reactive resin must be prepared by blasting not earlier than 7 days after application. Before application of a surface protection system, sealer or asphalt layer, the material must be left to set for 14 days at temperatures below + 10 °C, or at least 7 days at temperatures above + 15 °C.

Curing

Nafufill KM 130 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 130

Characteristic	Unit	Value*	Comments
Largest grain size	mm	3	
Fresh mortar density	kg/dm ³	2.26	
Dry mortar density	kg/dm ³	2.127	
Bending tensile-/ compressive strength	MPa	5.9/27.5 6.2/44.1 6.9/58.0 9.8/60.5	after 1 day after 2 days after 7 days after 28 days
Pull-off strength	MPa	3.4 3.3	if stored in normal climate if exposed to de-icing salt
Dynamic E-modulus	MPa	37,500	after 28 days
Shrinkage	mm/m	0.83	after 90 days
Chloride migration coefficient	m ² /s	1.79x10 ⁻¹²	
Coverage (dry mortar)	kg/m ² /mm	2.05	
Pot life	minutes	60 45 30	at + 5 °C at + 20 °C at + 30 °C
Resistant to foot traffic after...	hours	24	
Time until full resistance	hours	48	
Layer thickness	mm	10 40 40	minimum layer thickness per work step maximum layer thickness per work step maximum total layer thickness
Application conditions	°C	≥ 5 - ≤ 35	air, material and substrate temperature
Mixing ratio	p. b. w.	100 : 8.5 - 9	Nafufill KM 130 : water

Product Characteristics for Nafufill KM 130

Colour	cement-grey
Delivery	25 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.

For the application please note the information in the General Building Supervision Test Certificate.

* 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 12/19. 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.