



Nafufill® KMH

(Formerly Known as Zentrifix KMH)

Mineral-based Corrosion Protection and Bonding Coat Used for Concrete Repair

Product Properties

- Mineral-based corrosion protection coating and bond coat
- One-component
- Solvent-free
- Improves adhesion of coarse repair mortar

Areas of Application

- As an active corrosion protection for reinforcing steel as part of the Nafufill® Concrete Repair System
- As a bonding coat for hand applied coarse repair mortars of the Nafufill® Concrete Repair System

Application

General

Nafufill® KMH is a ready to use mineral based one component corrosion inhibitor and a bond coat.

Advantages

The use of Nafufill® KMH improves the adhesion of the coarse repair mortar to the existing substrate. In addition, it is also a solvent free product.

Instructions for Use

Surface Preparation

The Reinforcing steel must be prepared to SA 2½ in accordance with DIN 55928, part 4. They must be free from rust and any other contaminants or corrosion developing products. Therefore, the reinforcement should be treated by shot blasting with quartz-free abrasives, sand-blasting or other suitable techniques. The use of rust removers is not recommended

Concrete Surface

The Surface must be clean and free from all loose particles, dust, oil and other contaminants. Substrate pull-off strength of ≥ 1.5 N/mm² is required. The substrate must be sufficient roughness; e.g. sound aggregates should be visible. Before application of Nafufill® KMH, the surface must be moistened. It should be damp, but not saturated with water.

Mixing

Nafufill® KMH is a one-component product, which must be mixed with water. Nafufill® KMH is slowly added to the water while stirring continuously, until a homogenous lump free mixture is achieved. Mixing takes about 5 minutes. Slowly rotating mixers are particularly suitable. In 100 pbw of Nafufill® KMH 20-25 pbw water Can be added to get a brush able consistency.

Application

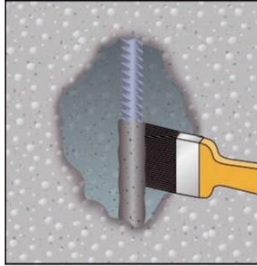
Nafufill® KMH can be applied by brush. As corrosion protection the homogeneously mixed material is applied to the prepared reinforcing steel with suitable brushes in two coats. Care must be taken that binding wires and also the areas between reinforcement and concrete are fully coated to ensure sufficient coat thicknesses. Overcoating times between successive coats is roughly 3 three hours depending on temperatures.

As bonding Coat

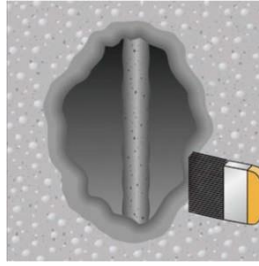
The homogeneously mixed Nafufill® KMH is carefully brushed into the pre-wetted surface. Short bristle brushes are recommended. The coarse repair mortar is then applied onto this fresh bond coat. Only so many surfaces should be prepared as can be worked "fresh-on-fresh".

Further Instructions / Precautions

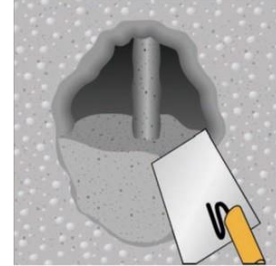
Application as Corrosion Protection



Application as Bond Coat



Application of Coarse Repair Mortar, Fresh in Fresh



Technical Data for Nafufill® KMH

Characteristic	Unit	Value*	Comments
Density	G / cm ³	2.1	± 0.02
Mixing ratio	parts by weight	100 : 20 to 25	Nafufill® KMH: water
Pot life	minutes	20	
Minimum application temperature	°C	+ 8°C	
Consumption	g / lin.m g / m ²	120 1000 to 1100	8 mm bar (anti corrosion) for bond coat

*All the technical Values were determined in laboratory, at a temperature of 20⁰ C and 65% relative humidity

Product Characteristics for Nafufill® KMH

Type of Product	Mineral Corrosion Protection and Bond Coat
Form	Gray Powder
Shelf Life	12 Months from date of Manufacture if stored in Unopened Packaging. Protect from Rain, Direct Sunlight, Heat and Frost
Delivery	30 kg sacks
Disposal	Empty packs completely and dispose off carefully to protect our Environment

Safety Advice

Please Take notice of the safety information and advice given on the packaging labels, safety information sheets and General Application Advice.

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 binding if given in written form. The accepted engineering rules must be observed at all times.

Edition: - MC/IND/190512, 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.