VIMAFIX 400

Quick-setting cement-based mortar for refurbishing concrete structures

VIMAFIX 400 is a quick-setting fiber-reinforced cement-based mortar for refurbishing and making localized and generalized repairs on reinforced concrete structures like the fronts of balconies, beams, pillars, stringcourses, cornices and fair-faced concrete surfaces. Thanks to its physical and mechanical properties, it can be used in layers up to 20 mm thick to even out irregularities in the surfaces.

COMPOSITION

Grey coloured powder based on special high-strength cements, siliceous aggregates, fibers and specific aggregates that improve the bonding quality of the product and make it easier to work.

BLENDING AND APPLICATION

Blend a 25 kg bag of VIMAFIX 400 with approx. 4.5-5 liters of clean water using an electric blender until a homogeneous, lump-free mortar has been obtained. Once blended, the product must be applied within 10 minutes.

Before the refurbishing mortar can be applied, the substrate must be prepared by eliminating the damaged parts using mechanical means or the hydrodemolition process. Remove the rust from the iron reinforcing by hand or with mechanical means and protect it with VIMAPASS passivating mortar. Eliminate all traces of dust, oil, grease and other substances. Wet the substrate until it has become saturated and then apply the product in layers from 5 to 20 mm thick.

RECOMMENDATIONS

Do not apply at temperatures lower than +5°C, in a strong wind, rain or when the surface is exposed to direct sunlight. In summer, the temperature must not exceed 30°C when the product is applied.

Do not apply to frozen, dusty, unstable or crumbling substrates.

Apply in layers from 5 to 20 mm thick.

Wet the substrates with clean water before applying the product.

Protect from frost and wait until the product has completely dried before applying the final skimming coats.

INDICATIVE AMOUNT REQUIRED

15 kg/m^2 per cm of thickness.

COLOUR

Grey.

PACKAGES

25 kg bags on 1575 kg disposable pallets protected by cling film.

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STORAGE

6 months in the unopened original package stored in a dry place.

TECHNICAL SPECIFICATIONS

PRODUCT DATA

Appearance:	premixed powder
Colour:	grey
Bulk density of powder:	~ 1300 kg/m^3
Size range of particles UNI EN 12192-1:	0 to 1.0 mm
Dry solids:	100%

APPLICATION DATA

Application temperature:	from +5 °C to +30 °C
Workable life of mixture:	approx. 10 minutes
Minimum application thickness:	5 mm
Maximum application thickness:	20 mm

TECHNICAL DATA

Blending ratio:	1 bag of Vimafix 400 with approx. 5 liters of water
Water/binder ratio:	0.20 %
Bulk density of mixture:	2000 kg/m^3
Average compressive strength after 7 days:	> 20 N/mm^2
Average compressive strength after 28 days EN 1504-3:	≥ 30 N/mm^2 CLASS R3
Bulk density of hardened mortar:	~ 1930 kg/m^3
Dynamic modulus of elasticity:	> 15000 N/mm^2
Bond to concrete:	> 1.5 N/mm^2
Fire reaction EN 13501-1:	Class A1

NOTES

Product for professional use. The data and instructions in this data sheet are based on our best practical and laboratory experience. They refer to laboratory tests conducted at 20°C with 50% R.H. and should be considered indicative. In view of the different conditions of use and application, which depend on factors over which Vimark has no control (type of surface, environmental conditions, technical indications for fixing, etc.), those who use the product are responsible for ascertaining whether or not it is suitable for the intended purpose. Thus our warranty obligation merely covers the qualityand fade-free characteristics of the actual product, and exclusively in relation to the aforementioned data. Vimark S.r.l. reserves the right to make technical modifications without prior notice. This technical data sheet voids and substitutes all previous editions.

Vimark S.r.l. possesses a Quality System certified in accordance with ISO 9001:2008 by MORGAN LLOYD Q.A. INTERNATIONAL with U.K.A.S. international accreditation number QAIC / IT / 90471.

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