

RAGRE BETON 300

Cement-based anti-carbonatation mortar for use as a skimming coat on concrete surfaces

RAGRE BETON 300 is a fiber-reinforced cement-based mortar for use as a skimming and levelling coat on concrete surfaces and prestressed concrete structures. It has been specifically formulated for protecting reinforced concrete structures with a setting coat finish exposed to attack from chemical-environmental agents, from carbonatation. The product can be used in one or more coats to level 2 to 10 mm unevenness on both indoor and outdoor substrates. Thanks to its bonding and mechanical strength properties, it can be covered with all types of protective and decorative cladding, including heavy materials like vitreous mosaic and ceramic tiles, or protective epoxy and polyurethane materials. It can also be used as a protective skimming coat on concrete surfaces during refurbishing processes.

COMPOSITION

Grey coloured powder based on special hydraulic binders, siliceous and calcareous aggregates, fibers and specific additives that improve the bonding quality of the product and make it easier to work.

BLENDING AND APPLICATION

Blend the 25 kg bag of RAGRE BETON 300 with approx. 5.5-6 liters of clean water using an electric blender until a homogeneous, lump-free mixture has been obtained. Allow the mixture to rest for about 5 minutes before applying. The workable life of the blended product is about 60 minutes. Do not add more water or stir the mixture so as to use it after that time. Before the skimming coat 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 and then apply the skimming coat in horizontal and vertical runs with a large trowel until the required degree of flatness has been obtained. Having evened out the substrate, the final run must be as thin as possible and unbroken after which it must be finished off with a sponge trowel to achieve a fine setting coat. Decorative paint can be applied once the surface has cured sufficiently.

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 35°C when the product is applied.

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

Apply in layers from 2 to 10 mm thick.

Do not apply to gypsum-based substrates.

Wet the substrates with clean water before applying the product.

Protect skimming coats from frost and wait until they have completely dried before applying any final decorations.

The remains of paint or protective water-repellent on the surfaces of the substrates must be completely removed before the product is applied.

INDICATIVE AMOUNT REQUIRED

1.2 kg per m² per mm of thickness.

COLOUR

Grey.

PACKAGES

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

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:	~ 1200 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:	60 minutes
Minimum application thickness:	2 mm
Maximum application thickness:	10 mm

TECHNICAL DATA

Blending ratio:	1 bag of Ragré Beton 300 with 5.5 liters of water
Water/binder ratio:	0.22 %
Bulk density of mixture:	~ 1750 kg/m ³
Average compressive strength after 28 days EN 1504-3:	> 25 N/mm ² CLASS R2
Dynamic modulus of elasticity:	> 15000 N/mm ²
Bond to concrete:	≥ 0.8 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 quality and 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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