

# VIMAFIX BETONCINO

## Thixotropic, fiber-reinforced structural mortar with controlled shrinkage for refurbishing and reinforcement

**VIMAFIX BETONCINO** is a thixotropic, fiber-reinforced cement-based mortar with a high mechanical performance and controlled shrinkage for refurbishing and reinforcing old brick walls or concrete substrates. Thanks to its physical and mechanical properties, it can be used in layers up to 50 mm thick to even out irregularities in the surfaces. The product can be used in either the manual mode or with a continuous plastering machine.

### COMPOSITION

Grey coloured powder based on special high-strength hydraulic binders, siliceous aggregates, fibers and specific additives that improve the quality of the product as to fluidity, expansion control, bond and workability.

### BLENDING AND APPLICATION

Blend a 25 kg bag of VIMAFIX BETONCINO with about 5 liters of clean water. The product can be blended in a concrete mixture for not more than 3 minutes. Once blended, the product must be applied within 45 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 either by hand, to achieve layers from 10 to 50 mm thick, or with mechanical means so as to obtain a layer up to 50 mm thick in several runs.

If the thickness of the product exceeds 30 mm, it is advisable to bury  $\varnothing$  2 electrowelded netting with a 50x50 mm square mesh in the layer, anchored at an adequate distance from the substrate. Structural mortar must fully fill any cavities and totally cover the reinforcing.

The next step is to level the layer or mortar with an aluminium straightedge and finish it off with a sponge trowel.

### 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 10 to 50 mm thick.

Wet the substrates with clean water before applying the product.

Do not apply to gypsum-based, metal or wooden substrates.

Subject the treated surfaces to a wet curing process for at least 24 hours after the product has been applied.

### INDICATIVE AMOUNT REQUIRED

14 kg of powder per m<sup>2</sup> per 1 cm of thickness.



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**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**

<b>Appearance:</b>	premixed powder
<b>Colour:</b>	grey
<b>Bulk density of powder:</b>	~ 1500 kg/m <sup>3</sup>
<b>Size range of particles EN 12192-1:</b>	0 to 3.0 mm
<b>Dry solids:</b>	100%

**APPLICATION DATA**

<b>Application temperature:</b>	from +5 °C to +30 °C
<b>Workable life of mixture:</b>	45 minutes
<b>Minimum application thickness:</b>	10 mm
<b>Maximum application thickness:</b>	50 mm

**TECHNICAL DATA**

<b>Blending ratio:</b>	1 bag of Vimafix Betoncino with approx. 5 liters of water
<b>Water/binder ratio:</b>	0.20 %
<b>Bulk density of mixture:</b>	~ 2000 kg/m <sup>3</sup>
<b>Average compressive strength after 28 days:</b>	≥ 30 N/mm <sup>2</sup>
<b>Average flexural strength after 28 days:</b>	≥ 7 N/mm <sup>2</sup>
<b>Bulk density of hardened mortar:</b>	~ 2000 kg/m <sup>3</sup>
<b>Dynamic modulus of elasticity:</b>	> 20000 N/mm <sup>2</sup>
<b>Bond to concrete:</b>	≥ 2 N/mm <sup>2</sup>
<b>pH of mixture:</b>	~ 12
<b>Fire reaction EN 13501-1:</b>	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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