

VIMAFIX 850

Cement-based mortar with controlled expansion for fixing metal components in concrete structures

VIMAFIX 850 is a cement-based mortar with a high mechanical performance that's able to withstand chemical and environmental aggression and is suitable for fixing metal components in concrete structures.

VIMAFIX 850 can be used on horizontal indoor and outdoor surfaces for grouting tension rods, shanks, anchor bolts, iron reinforcements for concrete, for assembling prefabricated components made of metal, concrete or prestressed concrete and fixing systems for the rails on which trucks, machine tools, presses and generators run. It can also be cast to form structural reinforcements for damaged reinforced concrete substrates.

COMPOSITION

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

BLENDING AND APPLICATION

The substrates must be sound, compact and clean. Remove all crumbling parts as well as any remains of stripping products, dust, grease and oil using compressed air or the hydrodemolition technique. Remove any rust from the iron used in the manual mode or with mechanical means.

Blend the 25 kg bag of VIMAFIX 850 with 3.75-4 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 30 minutes.

The fluid product must be poured into the cavities and must be vibrated as soon as it has been poured so as to remove any air pockets. The metal component must be positioned before or immediately after the product has been poured. After application, prevent the surfaces from drying too quickly with a sheet of polyethylene, which should be left for at least 24 hours after the product has been applied.

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 1 to 10 cm thick.

Wet the substrates with clean water before applying the product.

INDICATIVE AMOUNT REQUIRED

2 kg of powder per 1 dm³ of volume to be filled.

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:	~ 1550 kg/m ³
Size range of particles UNI EN 12192-1:	0 to 2.0 mm
Dry solids:	100%

APPLICATION DATA

Application temperature:	from +5 °C to +30 °C
Workable life of mixture:	30 minutes
Minimum application thickness:	1 cm
Maximum application thickness:	10 cm

TECHNICAL DATA

Blending ratio:	1 bag of Vimafix 850 with approx. 3.75-4 liters of water
Water/binder ratio:	0.15 %
Bulk density of mixture:	~ 2000 kg/m ³
Average compressive strength after 28 days EN 1504-3:	≥ 45 N/mm ² CLASS R4
Average flexural strength after 28 days:	> 9 N/mm ²
Bulk density of hardened mortar:	~ 2000 kg/m ³
Dynamic modulus of elasticity:	> 20000 N/mm ²
Bond to concrete:	≥ 2 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.

Edition: 02/2009. Updates will be published in the web site www.vimark.com