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per grandi progetti.

SCHEDA TECNICA



CR 500



AERATED CONCRETE-BASED ADHESIVE AND BLOCK FLOOR LEVELLING MORTAR

PRODUCT

Cement-based adhesive mortar for the installation of aerated concrete blocks in a thin bed. To be used as "fine float" levelling grout.

CHARACTERISTICS

Easy, fast and cheap to use, it has excellent adhesion to substrates and workability, good opening and recording times. It can be used both as an adhesive and a levelling grout with sponged "fine float" finishings.

APPLICATION FIELDS

Preparation of cellular concrete blocks, internal/external smoothing of aerated concrete based walls.

SUBSTRATES

Aerated concrete-based blocks and panels.

CONSUMPTION

- As mortar: 2,0 - 3,0 kg/sqm;
- As levelling grout: 1,4 kg/sqm per mm of thickness

PACKAGING

25 kg bags on pallets of 1500 kg.

STORAGE

12 months in a dry place in its original packaging.

ITEM SPECIFICATIONS

The aerated concrete-based masonries must be prepared with a special cement-based mortar, such as CR 500 by Edilcol Italia, to be mixed with water having a compressive strength $\geq 8,0$ N/sqmm after 28 days.

PREPARATION

- Check that the substrates are clean.
- Mix a bag of CR 500 with about 5,0 - 6,0 liters of water, either manually or with a mixer at a low numbers of turns, until obtaining a homogeneous and plastic mixture.
- Let it rest for about 5 minutes and stir it again briefly before applying the product with a notched trowel.

APPLICATION

- Lay the first row of blocks using a layer of CR 500 enriched with fine sand.
- Install the subsequent rows using CR 500 pure, regulating the thickness of both horizontal and vertical joints with an appropriate notched trowel in order to obtain joints of 3 mm of thickness, taking care to cover the entire surface including the shoulder of the block.
- Always check the alignment of the blocks removing the excess of mortar.
- Once moistened the substrate, apply CR 500 as a levelling grout with a metal trowel in 2 coats of 2-3 mm per coat, taking care to apply the second layer before the previous one has completely set, for a total max thickness of 5 mm.

RECOMMENDATIONS

Do not apply for the installation of blocks and gypsum based panels or with a thicknesses greater than 3 mm.

Do not apply on wet or dusty blocks.

Avoid the outdoor application in hot or very windy days, on substrates during frozen or thawing phase, with frost risk in the next 24 hours and at temperatures below of +5 °C or higher than +35 °C.

Although the details contained in this product report correspond to the best of our current experience, all the above information must be confirmed after practical applications. Anyone who intends to use the product must ensure beforehand that it is suitable for the envisaged application: in every case, the user alone is fully responsible for any consequences deriving from the use of product. The values given in the technical data derived from tests conducted in laboratory, in a controlled environment, so they may be greatly modified by the conditions of installation.

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Rev. 03 - 02/2016

Appearance:	grey, white powder	
Composition:	cement, selected aggregates, resins, additives	
Granulometry:	≤ 0,6 mm	
Application temperature:	+ 5°C / + 35°C	
Mixing water:	≈ 23 %	
Maximum application thickness:	0,6 cm as joints 0,5 cm as leveling grout	
Bulk density of fresh mortar:	≈ 1,8 Kg/l	(EN 1015-6)
Bulk density of the dried mortar:	≈ 1,6 Kg/l	(EN 1015-10)
Pot life:	> 2 hours	
Waiting time for painting:	≈ 7 days	
Adhesion – FP on concrete:	≥ 1,2 N/sqmm - B	(EN 1015-12)
Compressive strength:	≥ 8,0 N/sqmm	(EN 1015-11)
Flexural strength:	≥ 1,5 N/sqmm	(EN 1015-11)
Initial shear strength:	≥ 0,4 N/sqmm	(EN 1052-3)
Chloride ions content:	≤ 0,05%	(EN 1015-17)
Water absorption by capillarity:	W0	(EN 1015-18)
Permeability to water vapor μ:	15/35 (tabulated value)	(EN 1745)
Thermal Conductivity (λ _{10,dry}):	0,76 (tabulated value)	(EN 1745)
Reaction to fire:	Class A1	(EN 13501)
Contribution to smoking:	none	
Hazard classification:	none	(EC 99/45)