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SCHEDA TECNICA



CR 510 Isocoat



SPECIAL ADHESIVE-LEVELLING GROUT FOR INSULATION SYSTEM

PRODUCT

Cement-based grout, fibre-reinforced, specific for the laying and levelling of expanded polystyrene and polyurethane thermo-insulating boards with fibreglass support mesh.

CHARACTERISTICS

Very practical and chip 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 at "fine float" finishings in order to reinforce with a fiberglass mesh.

APPLICATION FIELDS

Interior - exterior insulating boards on old and new surfaces bonding and levelling grout. Realization of thermal insulation systems.

SUBSTRATES

Brick masonries, thermo-bricks, mixed or of stone, concrete, old and new plaster, tuff.

CONSUMPTION

- As adhesive mortar: 3,0 - 5,0 kg/sqm;
- As levelling grout: 1,4 kg/sqm per mm of thickness.

PACKAGING

- 25 kg bags on pallets of 1500 kg;
- 5 kg bags in boxes of 20 kg on pallets of 480 kg.

STORAGE

12 months in a dry place in its original packaging.

ITEM SPECIFICATIONS

The insulating boards made of polystyrene and expanded polystyrene foams for the construction of thermal insulation systems, must be applied and reinforced with a specific cement mortar, such as CR 510 Isocoat by Edilcol Italia, to be mixed with water and presenting an adhesion to concrete $\geq 1,0$ N/sqmm after 28 days.

PREPARATION

- Check that the substrates are clean, resistant, rough and perfectly seasoned.
- Mix a bag of CR 510 Isocoat with about 5,0-5,5 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 10 minutes and stir it again briefly before applying the product.

APPLICATION as adhesive

- If the substrate is perfectly planar, apply with a notched trowel on the entire surface of the board.
- If the substrate is not perfectly planar and has irregularities lower than one centimeter of difference in height, apply with a trowel in order to form some width strips of few centimeters in parallel to the board sides and at the center of the thickness points with a diameter of about 5-10 cm.
- Place the boards from the bottom to the top, carefully beating them for a perfect adhesion, using when necessary, a mechanical fixing with appropriate bolts after about 24 hours from the laying of boards.
- In correspondence of the edges, the boards must be alternated to absorb the tensions.

APPLICATION as levelling grout:

- After at least 48 hours after the application of the boards, realize the reinforcement layer applying a first coat of CR 510 Isocoat on which drown the fiberglass mesh HT 160, crushing it with a smooth trowel on the fresh layer of the mixing, taking care of overlay the mesh for 10 cm.
- At a distance of 1 hour, cover with a second coat of levelling grout.
- Realize the finishing when the levelling grout will be well hardened and cured.

RECOMMENDATIONS:

Do not apply on dry, inconsistent, crumbly, dirty, or painted substrates. Do not apply directly on gypsum based substrates.

Do not use the product for bonding the insulating boards on metal surfaces or on substrates subject to strong movements (fibrocement, wood, etc). Avoid the application of the product on the edges of the insulation boards, possible cause of the formation of thermal bridges.

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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Appearance:	grey, white powder	
Composition:	cement, selected aggregates, resins, additives	
Granulometry:	≤ 0,6 mm	
Application temperature:	+ 5°C / + 35°C	
Mixing water:	≈ 20 %	
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 (after the complete hardening)	
Adhesion - FP on Concrete:	≥ 1,0 N/sqmm - B	(EN 1015-12)
Adhesion - FP on Bricks:	≥ 1,0 N/sqmm - B	(EN 1015-12)
Adhesion - FP on Expanded polystyrene board:	≥ 0,08 N/sqmm - C	(EN 1015-12)
Compressive strength:	≥ 15 N/sqmm	(EN 1015-11)
Flexural strength:	≥ 7 N/sqmm	(EN 1015-11)
Elastic modulus (E)	ca. 5000 N/sqmm	
Permeability to water vapor μ:	< 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)