INTOCEM SUPER 15

PREMIXED PLASTER BASED ON NATURAL LIME AND CEMENT FOR BASE COAT PLASTER TYPE "FR" FIBER REINFORCED – "I" WATER REPELLENT FOR STRUCTURAL USES CLASS R1-CC Compliant with UNI EN 998-1 UNI EN 998-2- UNI EN 1504-3

DESCRIPTION

It is a high-resistance mortar for structural uses with a compressive strength CSIV compliant with EN 998-1, M15 with EN 998-2 e R1 with EN 1504-3, made of natural lime and cement, at compensated shrinkage for interiors and exteriors coat plasters, with a high and constant quality level, to reinforce walls, to realize reinforcing grout with the structural reinforcement system MALVIN NET, that uses nets, connectors and preformed accessories in GFRP (Glass Fiber Reinforced Polymer) (* FIBRE NET), or F.R.P nets (Fiber Reinforced Polymer made by glass fiber AR GLASS (alkali resistant) and connectors in steel inox AISI 304 cold drawn, both on the walls and on the vaults for restoration and reinforcement of walls (indenting), remake of bedding mortar on the joints or for entrapment of bearing walls, produced with an automated system, to apply by hand or plaster sprayers. Perfect to receive heavy coatings like: marbles, Available fiber reinforced with a special composition of polypropylene fibers type "FR" and water repellent type "I"

COMPOSITION

Natural lime, cement, siliceous aggregates with grading from 0 to 1,3 mm, natural additives tested for the specific use which give to the product a high adhesion and workability. For "FR" Polypropylene fibers. For "I" type water repellent agent.

FEATURES

An accurate and selected choice of the main materials made with a perfect grade curve, thanks to the use of our own system of crush, produce, just adding water, a mortar very plastic and easily workable. Used as a plaster, it is applied directly on any surface, interiors and exteriors. No cracks and no detachments, transpiring and impact-resistant. Is the perfect substrate for every type of superficial coating as paintings, finishing plasters, tiles, etc.

In INTOCEM SUPER FR fibers give to the hardened mortar more ductility and resistance to the aggressive agents and to the, thermal excursions, improves the distribution of the stresses and reduces micro cracks produced by external stresses, gives more resistance to the vibrations, so it is particularly appropriate for masonry buildings subjected to stresses.

AVALIABILITY

INTOCEM SUPER10: Normal;
INTOCEM SUPER 10 FR: Fiber reinforced;
INTOCEM SUPER 10 I: Water repellent;
INTOCEM SUPER 10 I FR: Water repellent/Fiber reinforced;

USE

INTOCEM SUPER 10 is a very resistant coat plaster for structural use to apply directly on any surface, on old and new interiors/exteriors building as bricks, stones, tuff, old masonries, concrete, reinforced-concrete, reinforced-bricks attics, etc, to use by hand or with a plaster sprayers. Specific to reinforce walls, to realize reinforcing grout with the structural reinforcement system MALVIN NET, that uses nets, connectors and preformed accessories in GFRP (Glass Fiber Reinforced Polymer) (* FIBRE NET), or F.R.P nets (Fiber Reinforced Polymer made by glass fiber AR GLASS (alkali resistant) and connectors in steel inox AISI 304 cold drawn, both on the walls and on the vaults for restoration and reinforcement of walls (indenting), remake of bedding mortar on the joints or for entrapment of bearing walls. Made to receive heavy coatings as marbles, clinker, natural stones, ceramic etc.

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APPLICATION

- The surface being plastered must be free of dust and dirt. Any traces of oil, grease, wax etc. must be removed in advance
- Wet in advance particularly absorbent or dries walls or exposed to hot climates.
- To mix by hand, with a cement mixer or with a mechanical stirrer with low rpm, till when the mixture isn't homogeneous; with a non-stop plaster sprayer regulating the flow meter till when the density isn't perfect.
- INTOCEM SUPER 10 can be used at different thickness, we suggest never lower than 1÷1,5 cm for just one application. After the first application, INTOCEM SUPER 10 must rest for two hours at least. Following hardening you have to get wet the surface to make it uniform with a sponge float or level it to make it suitable with the finishing.
- With high temperatures, wind and low wetness, we advice you to protect the surface from the quick drying, drowning it.
- Apply on very smooth or not very adherent reinforced concrete substrate, with a previous coat of INTOCEM SUPER 15 mixed with water and INTOELASTIC in 1:1. Cover with the "fresh on fresh" technique with INTOCEM SUPER 15.
- Additivate with INTOELASTIC in 1:5 with water to improve the adhesion to the substrates and the mortar elasticity.
- Don't use on frozen surfaces, with frost or possible frost in 24 hours.
- Don't use on gypsum substrates, on synthetic coatings and on paints.
- Don't use in very sunny day or with strong wind.
- Don't use until when plaster isn't completely dried.
- Don't use on friable and insubstantial surfaces.
- Don't use with a very strong rain.
- Don't add any other material to the product.
- Apply on reinforced concrete substrates carefully washed to remove any residue of form-release agents.
- To apply on reinforced concrete substrates, very smooth previously treated with the bonding mortar "ANCOMUR".
- We suggest to apply INTOCEM SUPER 15 with a temperature between + 5 ° C and + 30 ° C.
- Let the product rest for 28 days at least before apply heavy coatings.

YIELD

As plaster 14 kg/mq for each cm of thickness.
As mortar 15/16 kg/mq of masonry with cm 8 bricks.

PACKAGING

Loose in silos (Gravity feed).
Multi-ply paper sacks with protection, 25 Kg. On wood pallets, 17,50 ql. (70 sacks).

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tecHnicAL SPECIFICATION COMPLIANT WITH	UNI EN 998-1	UNI EN 998-2
Water content of the mix	~21-23%	~18-19%
Grading EN 1015-1	≤ 1,3 mm	≤ 1,3 mm
Specific weight EN 1015-10	1.400 kg/m^3 ± 5%	1.400kg/m^3±5%
Chlorides content EN 1015-17	-	< 0,1 % p/p
Workability time EN 1015-19	2 hours	1 hour
Plastic shrinkage in cond. Termoigr. Standard	Absent	Absent
Compressive strength after 28 days EN 1015-11	15 N/mm2(CSIV)	M15 (15 N/mm^2)
Flexural strength after 28 days EN 1015-11	6N/mm2	6 N/mm^2
Adhesion on brick EN 1015-12	1,0 N/mm2	-
Initial adhesion (tabulated value) EN 998-2	-	0,30 N/mm^2
Water vapor diff. Resistance factor		
EN 1015-19	-	5< μ <20
EN 1015-19	15 < μ	-
Water abs. due to capillary action EN 1015-18	W0	> 0,50 Kg/(m^2• min ^{0,5})
TYPE “I”	W2	≤ 0,20 Kg/(m^2•min ^{0,5})
Fire reaction EN 998-1/2	Class “A1”	Class “A1”
Thermal conductivity EN 1745 p.A.12	$\lambda_{10,dry,mat}$ = 0,47 W/mK	$\lambda_{10,dry,mat}$ = 0,47 W/mK
Durability	NPD	NPD
Toxicity - Regulation CE 1272/08	Danger	Danger
Classification UNI EN 998-1/998-2:2010	GP-CSIV-W0/DOP nr. 250	G-M15 /DOP nr. 259*
Classification UNI EN 998-1/998-2:2010 TYPE”FR”	GP-CSIV-W0/DOP nr. 251	G-M15 /DOP nr. 259*
Classification UNI EN 998-1/998-2:2010 TYPE”I”	GP-CSIV-W2/DOP nr. 258	G-M15 /DOP nr. 259*
Fire resistance compliant with 16/02/2007 D.M.	REI 180	

* at guaranteed performance (2+)

TECHNICAL SPECIFICATIONS COMPLIANT WITH UNI EN 1504-3	
Compressive strength after 28 days EN 12190	15 MPa (Class R1)
Content of chloride ions "Cl"	≤ 0,05 %
Bonding adhesion EN 1542	≥ 0,8 N/mm2
Carbonatation resistance EN 13925	NPD
Modulus of elasticity EN13412	NPD
Thermal compatibility EN 13687	NPD
Absorption due to capillary action EN 13057	NPD
Classification UNI EN 1504-3	CC-R1/DOP nr. 264*

* at guaranteed performance (2+)

SUMMARY

Internal and external plasters, internal and external reinforced plasters, the structural reinforcement of facing walls, vaults, elements in mixed masonry or “sack masonry”, in brick, stone and rock, matchable to the structural reinforcement system MALVIN NET in GFRP or F.R.P. AR GLASS, walls elevations and/or located reparations, will be realized with premixed plaster with an high resistance, for structural uses with compressive strength CSIV compliant with EN 998-1, M15 with EN 998-2 and R1 with EN 1504-3, based on natural lime and cement, type “INTOCEM SUPER 15” or fiber reinforced with a special composition of polypropylene fibers tested for the specific use type “FR” or water repellent type “I”, by MALVIN S.r.l., applied by hand or mechanically and to mix just adding water, with a consumption as plaster of 14 kg/mq per cm of thickness, as mortar 15/16 kg/mq of masonry with cm 8 bricks, with a compressive strength after 28 days di 15 N/mm2(category CS IV).

The performance characteristics refer to laboratory tests, values depend on the weather conditions and on the methods of implementations. The operator must verify the suitability of the product depending on the use planned.

MALVIN

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