INTOIGNI FER

FIRE-PROOF PREMIXED PLASTER REI 180
Compliant with UNI EN 13279-1

DESCRIPTION

It is a premixed monolayer fire-proof plaster based on special binders and light aggregates for application on interiors, for the fire protection of walls and floors and in particular of metal structures or in reinforced concrete and metal ducts, with an high and constant quality level produced with an automated system, to apply by mechanical projection or by hand on the thickness equal to the grade of security required.

COMPOSITION

Special binders, perlite, vermiculite, selected calcareous aggregates and natural additives tested for the specific use that give to the product a very high adhesion and workability, polypropylene fibers. Contains no asbestos and no synthetic fibers.

FEATURES

An accurate and selective choice of the main materials made with a perfect grading curve, thanks to the use of our own crush system, produce just adding water a mortar very plastic and easily workable. Used as plaster can be applied directly on every kind of surface. No cracks, no detachment it's breathable and impact resistant. Subject to heat does not develop toxic gases. Contains no toxic elements for the security of the operator.

USE

INTOIGNI FER is a monolayer plaster for the fire protection both on walls and on slabs and in particular of metal structures or in reinforced concrete and metal canalizations, to apply directly on interiors in brick, brick and cement, old masonries, concrete, reinforced concrete, slabs in reinforced concrete and on iron surfaces. To apply by hand or mechanically.

APPLICATION

- Prepare the walls and the ceilings removing all the crumbling and inconsistent part; removing, dusts, mud, bitumen, oil stains, etc.
- To wet, in advance, particularly absorbent or dry or exposed to hot climates walls.
- To mix by hand, in a cement mixer or with a mixer at low speed, until when the mixture isn't homogeneous; with a plaster sprayer regulating the flow meter until when the density isn't perfect.
- INTOIGNI FER can be applied at different thicknesses: is recommended for just one coat not to exceed cm 1÷1,5, in case of more coats wait 1 hour at least before applying the next coat.
- The minimum thickness of finished product doesn't have to be lower to cm 2 or cm 3 depending on the REI desired.
- In case of horizontal and vertical flat surfaces subject to stamping vibrations, to dilatations and subsidences, is necessary to apply a specific bonding mortar type "INTOAGGRAPPO" diluted 1:3 with water. Don't wait for more than 2-4 hours, depending on the temperature, between the treatment with "INTOAGGRAPPO" and the application of INTOIGNI FER.
- For surfaces subject to strict conditions of flexion, vibrations, dilations etc. it is essential to apply network port plaster separated by at least 5 mm from the surface.
- With high temperatures, wind and low humidity, is recommended to protect from the quick dry moistening the substrates.
- Don't apply on frozen substrates, with frost or possible frost in 24 hours.
- On structures and metal canalizations treat the surfaces, beforehand, with anti-rust paints.
- Apply on reinforced concrete substrates previously treated with the bonding mortar "INTOAGGRAPPO".
- Apply on tuff, stones, mixed masonries substrates, previously treated with "INTOBETON/R".
- On foamed concrete blocks prepare with bonding mortar "INTOAGGRAPPO".
- Apply on very smooth reinforced concrete substrates previously treated with the adhesion promoter "ANCOMUR".
- Don't apply with strong wind.
- Don't apply on synthetic coatings or paints.
- Don't apply on humid internal substrates or on dehumidifying plasters.
- Don't apply on environments subjected to high humidity (more than 2,5%).
- Don't apply on inconsistent and friable substrates.

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- Don't apply until when the substrate isn't completely dried.
- Don't apply on exteriors.
- Don't add any other material to the product.
- We suggest to apply INTOIGNI FER with a temperature between + 5 ° C and + 30 ° C.

FIRE RESISTANCE

IRON PILES	REI 180	Thickness 30mm
	REI 120	Thickness 20mm
TT CAPSLABS	REI 180	Thickness 11mm on the flat part
		Thickness 30mm on the rib
PREDALLES	REI 180	Thickness 20mm

YIELD

5/6 kg/mq per cm of thickness.

PACKAGING

Multi-ply paper sacks with protection of kg 13 on wood pallets of 7,80 ql. (60 sacks).

TECHNICAL SPECIFICATIONS COMPLIANT WITH UNI EN 13279-1

Water content of the mix	~55-62%
Grading EN 1015-1	≤ 1 mm
Specific weight EN 1015-10	385 kg/m^3 ± 10%
Plastic shrinkage in cond. Termoigr. Standard	Absent
PH mixed	11
Setting Time EN 13279-2	220 minutes ± 30 minutes
Rébattage time	120 minutes ± 40 minutes
Workability time	40 minutes
Compressive strength after 28 days EN 13279-2	≥ 2 N/mm^2
Water vapor diff. resistance factor EN 1015-19	μ = 14
Certified thermal conductivity coeff.*	λ = 0,086 W/mK
Fire reaction 13279-1	Class "A1"
Toxicity - Regulation CE 1272/08	Danger
Classification UNI EN 12379-1:2008	C5-20-2/DOP nr. 172
Fire resistance compliant with 16/02/2007 D.M.	REI 180

CERTIFICATION

*Certificate Institute Giordano n° 273483 of 22/09/2011.

SUMMARY

The fire protection of walls, floors, structures and metal canalizations will be realized through application of fire-proof plaster based on special binders, perlite and vermiculite, type "INTOIGNI FER" by MALVIN S.r.l. , applied by hand or mechanically and to mix just adding water, with a consumption of 5/6 kg/mq per cm of thickness, compressive strength after 28 days equal to 2 N/mm^2 and fire resistance on iron piles: REI-120 thickness 20mm, REI-180 thickness 30mm; on slabs TT: REI-180 thickness 11 mm and on rib thickness 30mm; on predalles : REI-180 thickness 20mm.

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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