

INTOIGNI FER C



FIRE-PROOF PREMIXED PLASTER REI 180 Compliant with UNI EN 998-1

DESCRIPTION

It is a premixed plaster fire-proof based on special hydraulic binders and light mineral aggregates for application inside and outside, for the fire protection of walls and slabs and in particular of metal structures or in reinforced concrete and metal canalizations, with an high and constant quality level, produced with an automated system, to apply by hand or by mechanical projection on the thickness correspondent to the grade of security desired.

COMPOSITION

Special hydraulic binders, perlite, vermiculite, selected calcareous aggregates and natural additives tested for the specific use which 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. Subjected to heat does not develop toxic gases. Contains no toxic elements for the security of the operator.

USE

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

APPLICATION

- Remove from the walls and the ceilings all the crumbling and inconsistent parts; eliminating dusts, mud, bitumen, oil stains, etc.
- To wet, beforehand, particularly absorbent or dry or exposed to hot climate 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 C 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 for 1 hour at least before applying the following coating.
- The minimum thickness of the finished product doesn't have to be lower to cm 2 or cm 3 depending on the REI required.
- In case of horizontal and vertical flat surfaces subjected to stamping vibrations, to dilatations and subsidences, is necessary the treatment with 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 C.
- For surfaces subject to severe conditions of flexion, vibrations, expansions etc. is necessary the application of network port-plaster spaced at least 5 mm from the surfaces.
- 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 metal structures and ducts treat the surfaces, beforehand, with an anti-rust paint.
- To apply on reinforced concrete substrates previously treated with the bonding mortar "INTOAGGRAPPO".
- To apply on tuff substrates, stones, mixed masonries, previously treated with undercoat "INTOBETON/R".
- On foamed concrete blocks to prepare with the bonding mortar "INTOAGGRAPPO".
- To 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 substrates humid interiors or on dehumidifying plasters.
- Don't apply on inconsistent and friable substrates.
- 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.

INTOIGNI FER C



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FIRE RESISTANCE

IRON PILES

REI 180 Thickness 30mm

REI 120 Thickness 20mm

TT CAP SLABS

REI 180 Thickness 11mm on the flat part

Thickness 30mm on the rib

PREDALLES

REI 180 Thickness 20mm

YIELD

5/6 kg/mq for each cm of thickness.

PACKAGING

Multi-ply paper sacks with protection of kg 13,00 on wood pallets of 7,80 ql. (60 sacks).

TECHNICAL SPECIFICATIONS COMPLIANT WITH UNI EN 998-1

Water content of the mix

~ 55-62%

Grading EN 1015-1

≤ 1,3 mm

Specific Weight EN 1015-10

385 kg/m³ ± 10%

Plastic shrinkage in cond. Termoigr. Standard

Absent

Setting Time

220 minutes ± 30 minutes

Rébatage Time

120 minutes ± 40 minutes

Workability time EN 1015-9

40 minutes

Compressive strength after 28 days EN 1015-11

> 1,5 N/mm² (CSI)

Water vapor diffusion resistance factor EN 1015-19

μ ≤ 14

Water vapor abs. due to capillary action EN 1015-18

Class "W0"

Thermal conductivity coeff. EN 1745 p.A.12

λ_{10,dry,mat} = 0,086W/mK

Reaction to fire EN 998-1

Class "A1"

Durability

NPD

Toxicity - Regulation CE 1272/08

Danger

Classification UNI EN 998-1:2010

T1-C1-W0/DOP nr. 173

Fire resistance compliant with 16/02/2007 D.M.

REI 180

SUMMARY

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

