INTOIGNI

DESCRIPTION
It is a premixed fire-proof monolayer plaster certified REI 120 based on natural lime and gypsum and light mineral aggregates for internal base coat plasters, for the fire protection of walls and floors, with an high and constant quality level produced with an automated system, to apply by hand or by mechanical projection.

COMPOSITION
Hemydrated gypsum, perlite, vermiculite, selected calcareous aggregates and natural additives tested for the specific use which give to the product a very high adhesion and workability. 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 is a monolayer for the fire protection both on walls and on floors, to apply directly on interiors as brick, hollow-core concrete, 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 inconsistent and crumbling parts; eliminating dusts, mud, bitumen, oil stains, etc.
- To wet, in advance, particularly absorbent or dry or exposed to hot climates;
- 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 can be applied at different thicknesses: is recommended for just one coat not to exceed cm 1÷1,5, in case of more application let the product rest for 1 hour at least before applying the next coats.
- The minimum thickness of the finished product doesn't have to be lower to cm 2.
- With high temperatures, wind and low humidity, is recommended to protect from the quick drying drowning the substrates.
- On structures and metal canalizations to treat the surfaces, in advance, with anti-rust paints.
- To apply on reinforced concrete substrates previously treated with bonding mortar "INTOAGGRAPPO".
- To apply on tuff substrates, stones, mixed masonries, previously treated with "INTOBETON/R".
- On foamed concrete blocks to prepare with the bonding mortar "INTOAGGRAPPO".
- Apply on very smooth reinforced concrete substrates previously treated with the adhesion promoter "ANCOMUR".
- Don't apply on frozen substrates, with frost or possible frost in 24 hours.
- 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 an high humidity (greater than 2,5%).
- Don't apply on inconsistent and friable substrates.
- Don't apply until when the substrates hasn't completely dried.
- Don't apply on exteriors.
- Don't add any other material to the product.
- We suggest to apply INTOIGNI with a temperature between + 5 ° C and + 30 ° C.

INTOIGNI

FINISH OF INTOIGNI

After the application by hand or mechanical of INTOIGNI and next prop up leveling, after about 2 hours, remove alignment metal guides and make a relief cut of the surfaces to remove the superficial film and any undulations or with the cutting of the great American trowel or with a special scraper.

After wetting, revive INTOIGNI with a sponge float. The result is a mixture to work with American trowel through several subsequent steps to obtain a smooth mirror surface.

Proceed to the finishing operation by recharging the surface with a skim coat plaster type MICRORAS/SB/PLUS or FINITITURA A STUCCO. This charging operation is carried out through various subsequent steps to obtain a smooth specular surface. With one last application performed during the shrinkage with small american trowel drowning lightly the surface.

YIELD

7/8 kg/mq for each cm of thickness.

PACKAGING

Loose in silo (gravity feed).
Multi-ply paper sacks with protection of kg.25 on wood pallets of 15,00 ql.(60 sacks)

TECHNICAL SPECIFICATIONS COMPLIANT WITH UNI EN 13279-1

Water content of the mix	~46-50%
Grading EN 1015-1	≤ 1 mm
Specific Weight EN 1015-10	650 kg/m³ $\pm$ 10%
Plastic shrinkage in cond. Termoigr. Standard	Absent
Setting time EN 13279-2	220 minutes $\pm$ 30 minutes
Hardening time	140 minutes $\pm$ 15 minutes
Rébattage time	120 minutes $\pm$ 40 minutes
Workability time	40 minutes
Compressive strength after 28 days EN 13279-2	>2 N/mm²
Flexural strength after 28 days EN 13279-2	1 N/mm²
Fire resistance	120 minutes for a thickness of 20 mm
Water vapor diff. resistance factor EN 1015-19	$\mu = 6{,}6$
Thermal conductivity coeff. EN 13279-1	$\lambda = 0{,}20$ W/mK
Fire reaction EN 13279-1	Class "A1"
Toxicity - Regulation CE 1272/08	Danger
Classification UNI EN 13279-1:2008	C5-20-2/DOP nr. 171
Fire resistance compliant with 16/02/2007 D.M.	REI 120

CERTIFICATION

WALLS Certificate Institute Giordano s.p.a N°47254/0906RF REI120 thickness cm 2
FLOORS Certificate Institute Giordano s.p.a N°51720/0950RF REI120 thickness cm 2

SUMMARY

The fire protection of interiors walls and floors will be realized through application of anti-fire plaster based on gypsum hemihydrates, perlite and vermiculite, type "INTOIGNI" by MALVIN S.r.l., applied by hand or mechanically and to mix just adding water, with a consumption of 7/8 kg/mq for each cm of thickness, compressive strength after 28 days of 2 N/mm² and fire resistance REI 120 thickness cm 2 and classification UNI EN 13279-1:C5/20/2.2.

MALVIN