



INTOIGNI PHONOACUSTIC



THERMAL ACOUSTIC AND FIREPROOF PLASTER Compliant with UNI EN 13279-1

DESCRIPTION

It is a premixed lightened plaster with high acoustic insulation based on hydraulic binders and light mineral aggregates, for internal and external base coat plasters for the noise reduction, with an high and constant quality level produced with an automated system, to apply by hand or by mechanical projection.

COMPOSITION

Hydraulic binders, perlite, vermiculite, selected calcareous aggregates with max. grading of mm 1,3 and natural additives tested for the specific use which give to the product a very high adhesion and workability. Contains 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 all the surfaces. No cracks, no detachment, it's breathable and impact resistant. Contains no toxic elements for the security of the operator. Regulates humidity, reduces the heat loss by conduction and radiation; It has a good thermal inertia, accumulating and maintaining the heat, gets a continuous insulation without a thermal bridge at the slabs and pillars. It allows correction and noise reduction of churches, of recording studios, cinemas, theaters, etc; lowers the noise level of industrial factories, rooms used for telephone conversations, restaurants, offices, etc. It complies with Ministerial Circular No. 3150 about the right reverberation time for school gyms and classrooms. It also allows a safe fire protection certifiable. Thus achieves an excellent thermal and acoustic and fire retardant insulation.

USE

INTOIGNI PHONOACUSTIC is a lightened plaster that allow the acoustic correction of churches, recording studios, cinemas, theaters, etc.; reduces the noise level of industrial factories, rooms used for phone conversations, restaurants, offices, etc.; complies with Ministerial Circular N° 3150 about the right reverberation time for classrooms and gyms. To apply by hand or mechanically, directly on interiors and exteriors made of brick, brick and cement, old masonries, concrete, reinforced concrete, slabs in reinforced brick, etc.

APPLICATION

- Prepare the walls and the ceilings removing all the crumbling and inconsistent parts; and 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, till when the mixture isn't homogeneous; with a plaster sprayer regulating the flow-meter until when the density isn't perfect.
- INTOIGNI PHONOACUSTIC must be applied on walls and ceilings, by hand or mechanically, leveling then with an aluminum level staff. Additional product on the defective walls and final leveling with aluminum level staff. After the application of PHONOACUSTIC is necessary to sponge the surface to make it uniform with a specific sponge float and after wetting with water or "grate it" to make it suitable to receive the following finish.
- INTOIGNI PHONOACUSTIC can be applied at different thicknesses; is recommended for just one application not to exceed cm 1 ÷ 1,5, in case of more applications wait for 2 hours at least before applying the following coat.
- 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 dry moistening the substrates.
- Apply on reinforced concrete substrates previously treated with bonding mortar "INTOAGGRAPPO".
- Apply on substrates in tuff, stones, mixed masonries, treated beforehand with "INTOBETON/R".
- On foamed concrete blocks prepare in advance with the bonding mortar "INTOAGGRAPPO".
- To 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 or in very sunny days.
- Don't apply until when the substrate isn't completely dried.
- Don't apply on inconsistent and friable substrates.
- Don't apply on gypsum substrates, synthetic coatings or paints.



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- Don't apply with driving rain.
- Don't add any other material to the product.
- We suggest to apply INTOIGNI PHONOACUSTIC with a temperature between + 5 ° C and + 30 ° C.

• FINISH OF INTOIGNI TA

- After the application by hand or mechanical of INTOIGNI PHONOACUSTIC and leveling screeding, after about 2 hours, Remove any metal alignment guides and remove the superficial film and any undulations or with cutting of the great American trowel or with a specific trowel.

After wetting, revive INTOIGNI PHONOACUSTIC with a sponge float. The result is a pasta to work with an American trowel through several successive steps until you have a smooth mirror surface.

Finish charging the surface with a skim coat plaster type MICRORAS/SB/PLUS or FINITITURA A STUCCO. This recharge operation can be done through various following steps to obtain a smooth mirror surface. With a last coat made during the shrinkage phase with the little American trowel wetting slightly the surface.

Not to diminish the acoustic properties of INTOIGNI PHONOACUSTIC use as finish the same product to sponge with a sponge float in order to leave the surface as raw as possible.

YIELD

5/6 kg/mq for each 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/m³ ± 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/mm²

Flexural strength after 28 days EN 13279-2

1,0 N/mm²

Adhesion on brick

0,4 N/mm² FP: A

Water vapor diff. resistance factor EN 1745

μ = 14

Thermal conductivity coefficient EN 1745

λ = 0,10 W/mK

Sound absorption coefficient beyond 500 Hz

α=0,65

Thermal conductivity coeff. EN 13279-1

λ = 0,086 W/mK

Reaction to fire EN 13279-1

Class "A1"

Toxicity - Regulation CE 1272/08

Danger

Classification UNI EN 12379-1:2008

C5-20-2/DOP nr. 175

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

REI 120

SUMMARY

The thermal acoustic and fireproof treatment of walls and slabs will be realized through application of a lightened plaster with an high acoustic insulation based on hydraulic binders, perlite and vermiculite, type "INTOIGNI PHONOACUSTIC" produced by MALVIN S.r.l., applied by hand or mechanically and to mix just adding water, with a consumption of 5,5/6,5 kg/mq for each cm of thickness and a compressive strength after 28 days of 2,0 N/mm²(category CS II) and noise reduction coefficient equal to α=0,65.

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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