INTOSUGHERO

ECO-FRIENDLY CERTIFIED BIO-BASE COAT PLASTER FIBRATED WATER REPELLENT BASED ON CORK AND NATURAL HYDRAULIC LIME NHL 3,5 FOR INSULATING SOUNDPROOFING AND DEHUMIDIFYING PLASTERS
Compliant with UNI EN 998-1

DESCRIPTION

It is a bio-plaster eco-friendly, fiber reinforced with a special composition of fibers, water repellent, based on natural materials as cork and natural hydraulic lime compliant with EN 459-1 for thermal soundproofing and dehumidifying base coat plasters, and/or thermal protection on beams and pillars in reinforced concrete inside and outside with an high and constant quality level, produced with an automated system, to apply by hand or with a plaster sprayer. The natural hydraulic lime ensures an hydraulic hardening very slow and constant that allows to obtain plasters with an high durability and breathability. Form no vapor barriers and contains no solvents. Recyclable as inert.

COMPOSITION

Cork granules produced with a system powered by renovables sources (CO2 zero), natural hydraulic lime NHL 3,5 compliant with EN 459-1 obtained by burning marbly limestones at 950°C, light mineral aggregates, natural additives tested for the specific use which give to the product a very high adhesion and workability; fibers. The naturalness of its components combined with a very high breathability give to the plaster antibacterial and anti-mold property, and allow its recycle as inert at the end of life.

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 a plaster can be applied directly on every kind of surface. No cracks, no detachment it is breathable and impact resistant. It is the perfect base for every kind of superficial coating naturally breathable (see finishes). Fibers give to the hardened mortar more ductility and resistance to the aggressive agents and to the thermal excursions, improve the distribution of the stresses and reduce micro cracks produced by external stresses thanks to the formation of a internal structural grid, give more resistance to the vibrations so it is perfect for masonry buildings under stresses.

USE

INTOSUGHERO is a base breathable eco-friendly bio-plaster ideal for thermal and acoustic insulation, for the dehumidification, to apply on every kind of interior and exterior of old and new buildings as brick, old masonries, concrete, reinforced concrete, slabs in reinforced brick, etc., through application by hand or mechanically.

APPLICATION

- Remove from the substrates all the crumbling and inconsistent parts; eliminating dusts, mud, bitumen, oil stains, etc.
- To wet the walls in advance. During summer, with high temperatures, strong wind and sun, wet the plaster once it has hardened and also twice a day for the two following days after the application.
- 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.
- Leave the gun head immersed in water to each interruption of application to avoid the formation of the cap.
- Guides must be done with INTOSUGHERO or with wood battens to obtain the thicknesses required, in this case remove the battens and fill the emptiness with "INTOSUGHERO".

INTOSUGHERO

- INTOSUGHERO must be applied by hand or mechanically; it can be applied at different thicknesses, is recommended for just one application not to exceed 2,5÷3 cm. In case of more applications let the substrate rest for two hours at least.
- Within 2-4 hours from the application, the plaster must be wet and worked with a sponge float to compact the plaster, avoiding on this way the quick evaporation, ensuring on this way a better hydratation of the lime.
- The minimum thickness of the finished product doesn't have to be lower to cm 3.
- For applications over 6cm, is recommended to plaster with two or more coatings with interposition of network in glass fiber sheet 10x10mm of 130gr/mq.
- With high temperatures, wind and low humidity, is recommended to protect from the quick drying moistening the substrates.
- In correspondence of bodied and\or different structures you need to apply directly stripes of network port plaster of an appropriate dimension (30-35cm), immersed on the plaster.
- Don't apply on frozen substrates, with frost or possible frost in 24 hours.
- Don't apply on gypsum substrates, synthetic coatings, paintings.
- 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 with driving rain.
- Don't add any other material to the product.
- Apply on reinforced concrete substrates previously treated with the bonding mortar "INTOAGGRAPPO" diluted 1:2 with water.
- To apply on very smooth reinforced concrete substrates previously treated with the adhesion promoter "ANCOMUR".
- To apply on tuff substrates, stones, mixed masonries, previously treated with undercoat eco-friendly "INTOCALCE R" seasoned 3/4 days at least.
- On foamed concrete blocks to prepare with the bonding mortar "INTOAGGRAPPO" diluted 1:2 with water.
- We suggest to apply INTOSUGHERO with a temperature between + 5 ° C and + 30 ° C.
- Waiting time for the finishing application 15 days at least.

FINISHES
Used as finish INTOCALCE FLEX or INTOCALCE MAX with a thickness never lower to 3/4 mm, incorporating between the first and the second layer MALVIN NET network port plaster in glass fiber, mesh 4x4, of 150 gr min, certified ETAG004. Use for the decoration coatings or water paints of ACRYL-SILOXANE LINE - LINE SILOXANE –SILICATES LINE – ELASTOMERIC SILOXANE LINE

YIELD
1 sack for 1 mq thickness cm 4.

PACKAGING
Multi-ply paper sacks with protection of 50 lt on wood pallets of 55 sacks.

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tecHnicAL SPECIFICATIONS COMPLIANT WITH UNI EN 998-1

Water content of the mix	~70-5%
Grading EN 1015-1	≤ 3 mm
Specific Weight EN 1015-10	365 kg/m^3 ± 5%
Workability time EN 1015-19	1hour
Soundproofing between 600 and 1500 Hz	greater than 70%
Plastic shrinkage in cond. Termoigr. Standard	Absent
Compressive strength after 28 days EN 1015-11	2 N/mm^2 (category CS I)
Adhesion on brick EN 1015-12	0,2 N/mm^2
Water vapor diffusion resistance factor EN 1015-19	μ ≤ 5
Water absorption coeff. due to capillary action EN 1015-18	Class "W1"
Reaction to fire EN 998-1	Class "A1"
Certified thermal conductivity coefficient EN 7745	λ = 0,064 W/mK
Specific Heat EN 1745	1,00 kj/kg K
Durability	NPD
Toxicity - Regulation CE 1272/08	Danger
Classification UNI EN 998-1:2010	T1-CSI-W1/DOP nr. 116

CERTIFICATION

**Certificate Institute LAPI s.p.a. n° 347.2 DC 0050/12

SUMMARY

Internal and external walls will be plastered with an eco-friendly certified bio-plaster fibrated water repellent, termico, fonoassorbente and dehumidifying, with an high breathability based on cork in granuli and natural hydraulic lime NHL 3,5 compliant with EN 459-1 obtained by burning marbly limestones at 950°C, natural additives tested for the specific use type "INTOSUGHERO" by MALVIN S.r.l., applied by hand or mechanically and to mix just adding water, with a consumption of 1 sack for 1 mq thickness cm 4, with a compressive strength after 28 days category CS I and certified thermal conductivity λ = 0,064 W/mK.

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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