

INTOCALCE COL



ECO-FRIENDLY MINERAL BIO-COATING BASED ON NATURAL HYDRAULIC LIME NHL 3,5 OR NHL 5 WATER REPELLENT COLORED TYPE TERRANOVA
Compliant with UNI EN 998-1

DESCRIPTION

Bio-coating mineral eco-friendly based on natural hydraulic lime NHL 3,5 or NHL 5 compliant with EN 459-1, with an high breathability, colored with inorganic pigments and colored earth pigments, water repellent on the mass, with a very good breathability and resistance to the atmospheric agent with a cloudy effect, perfect for the finish of interiors and exteriors of old and new buildings with an high and constant quality level, produced with an automated system to apply by hand with sponged or grinded finish with a plastic spatula. The natural hydraulic lime NHL ensures an hydraulic hardening very slow and constant that allows to obtain an high breathability and durability. Form no vapor barriers and contains no solvents. Recyclable as inert at the end of life. Specific for the conservative historical restoration, thanks to the natural origin of its components that respect the nature of the original materials of the structures of historical interest.

COMPOSITION

Natural hydraulic lime NHL 3,5 or NHL 5 compliant with EN 459-1 obtained by burning marbly limestones at 950°C, selected carbonated and siliceous sands, inorganic pigments and colored earth pigments, natural additives tested for the specific use which give to the product a very high adhesion and workability, water repellent agent.

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 finish can be applied on every kind of interior and exterior to finish. No cracks, no detachment it's transpiring and impact resistant. It is the perfect finish for restoration.

USE

For the decoration and the protection of interiors and exteriors of every type of construction, in particular the one of historical interest thanks to his ancient effect and to the natural origin of its components, to apply by hand obtaining a mineral water repellent coating, pigmentato with inorganic pigments and colored earth pigments, of excellent quality. To apply on premixed plasters and traditional old and new based on lime and cement, plasters based on natural hydraulic lime, restoration plaster and historical conservative restoration, insulating lightened plasters, old mineral coatings, also on reinforced concrete walls through application by hand.

AVIABILITY

BINDER:

Natural hydraulic lime NHL 3,5

Natural hydraulic lime NHL 5

APPLICATION

- The substrates must have a rustic finish.
- Remove from the walls and the ceilings all the crumbling and inconsistent parts; and dusts, mud, bitumen, oil stains, etc.
- Make sure that the substrate is free of saline efflorescence and stains of active moisture.
- Is necessary to wet, in advance, particularly absorbent or dry or exposed to hot climates walls.
- To mix with a cement mixer or with a mixer at low speed until when the mixture isn't homogeneous taking care to keep constant the ratio water/product.
- To apply with the American big trowel two coats interspersed from 12 hours at least. Is recommended for just one coat not to exceed the thickness of mm 2. Reached the right consistence to finish with a dry sponge sprayer or slightly humid or with a plastic spatula.

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- With high temperatures, wind and low humidity, is recommended to protect from the quick drying drowning the substrates.
- To apply on reinforced concrete substrates, on autoclaved foamed concrete blocks, old plasters, old mineral coatings previously treated 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 on lime/gypsum substrates.
- Don't apply on not absorbent or painted substrates.
- Don't apply until when the substrate isn't completely dried.
- Don't apply on inconsistent and friable substrates.
- Don't apply with strong wind or in very sunny days.
- Don't apply with driving rain.
- Don't add any other material to the product.
- We suggest to apply INTOCALCE COL with a temperature between + 8 ° C and + 30 ° C.
- To create interruptions (string courses, diamond tips, etc.) or technical cuts in case of surfaces too extended.
- To protect the decorated substrates from the water for 48 hours at least.
- In case of applications with temperatures lower to + 8 ° C there could be phenomena of superficial carbonation.
- The color effect may vary depending on the environmental conditions and the time of application; it is recommended not to apply the coating at different times.
- Natural products are sensitive to water flow, therefore protect the facade with appropriate flashings, string courses, etc.
- Is recommended no to perform patches because will be visible.
- The maximum thickness of the finished product doesn't have to exceed mm 5.
- On new premixed platers let the substrate rest for 20/22 days.
- Buy the necessary materials in a single batch to avoid variations of tone.

PACKAGING

Multi-ply paper sacks with protection of kg 25 on wood pallets of 17,50 ql. (70 sacks).

TYPES OF FINISHES

F: Fine grain;
M: Medium grain;
SF: Coarse grain;

WARNINGS

Min. order 5 ql.





INTOCALCE COL

TECHNICAL SPECIFICATIONS COMPIANT WITH UNI EN 998-1

	F	M	SF
Water content of the mix	~25-30%	~25-30%	~25-30%
Max grading EN 1015-1	< 0,6 mm	< 1,3 mm	< 1,3 mm
Specific weight $\pm 5\%$ EN 1515-10	1.200 Kg/m ³	1.300 Kg/m ³	1.400 Kg/m ³
Pot life EN 1015-9	2 hours	2 hours	2 hours
Plastic shrinkage in cond. Termoigr. Standard	Absent	Absent	Absent
Compres. Strength after 28days EN 1015-11	2 N/mm ² (CSI)	2,2 N/mm ² (CSI)	2,2 N/mm ² (CSI)
Flexural strength 28 days	<1 N/mm ²	<1 N/mm ²	<1 N/mm ²
Adhesion on brick EN 1015-12	0,4 N/mm ² FP:A	0,5 N/mm ² FP:A	0,5 N/mm ² FP:A
Water vapor diffusion resistance factor EN 1015-19	$\mu < 6$	$\mu < 7$	$\mu < 7$
Water absorption coeff. dueto capillary action EN 1015-18	Class W1	Class W1	Class W1
Fire reaction EN 998-1	Class "A1"	Class "A1"	Class "A1"
Min. Thickness of product finished	2 mm	3 mm	3 mm
Thermal conductivity EN 1745 p.A.12	$\lambda_{10,dry,mat} = 0,35 \text{ W/mK}$	$\lambda_{10,dry,mat} = 0,39 \text{ W/mK}$	$\lambda_{10,dry,mat} = 0,43 \text{ W/mK}$
Durability	NDP	NDP	NDP
Theoretical yield in Kg/mq for 2 application	3-4	4-5	4-5
Toxicity - Regulation CE 1272/08	Danger	Danger	Danger
Classification UNI EN 998-2:2010	CR-CSI-W1 DoP nr. 104	CR-CSI-W1 DoP nr. 105	CR-CSI-W1 DoP nr. 106

SUMMARY

The decoration and the protection of interiors and exteriors will be realized with bio-coating eco-friendly mineral based on natural hydraulic lime NHL 3,5 or NHL 5 complaint with EN 459-1 colored with inorganic pigments and colored earth pigments, with an high breathability and water repellent on the mass with a cloudy effect, type "INTOCALCE COL" by MALVIN S.r.l., applied by hand with a thickness never lower to mm 2 or 3 depending on the grain and to mix just adding water, with a consumption depending on the grain of 3/5 kg/mq per 2 coats, with sponged finish with a plastic spatula.

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.



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