

INTOCALCE MAX



ECO-FRIENDLY BIO FINISH WATER REPELLENT FIBER REINFORCED AT HIGH ELASTICITY MADE OF NATURAL HYDRAULIC LIME NHL
Compliant with UNI EN 998-1

DESCRIPTION

Eco-friendly bio-finish water repellent and fiber reinforced with an high elasticity, made of natural hydraulic lime NHL 3,5 or NHL 5 compliant with EN 459-1 with an high breathability, 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. The natural hydraulic lime NHL ensure an hydraulic hardening very slow and constant that allow to obtain finishes with an high durability and breathability. Form no vapor barriers and contains no solvents.

Recyclable as inert at end of life. Specific for historical conservative, restoration thanks to the natural origin of its components that respect the nature of the materials originating in the structures of historical interest. Specific to finish the heat-insulating plastering system (INTOSUGHERO).

COMPOSITION

Natural hydraulic lime NHL 3,5 or NHL 5 compliant with EN 459-1 obtained by burning marbly limestone to 950°C, natural lime, selected carbonate and siliceous sands, natural additives tested for the specific use which give to the product a very high adhesion and workability.

aVIABILITY

BINDER:

Natural hydraulic lime NHL 3,5
Natural hydraulic lime NHL 5

FEATURES

An accurate and selective choice of the main materials made with a perfect grading curve, tank 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 to finish. No cracks, no detachment, breathable and impact resistant. It is the perfect base for every kind of breathable coatings and water-paints.

USE

For the finish of interiors and exteriors of old and new buildings obtaining a sponged or float finish. To apply directly on plaster made of hydraulic lime type INTOCALCE and on every lime/cement plaster, traditional and premixed, old and new, on restoration plasters and historic restoration conservative. Specific to finish the thermal plaster INTOSUGHERO (heat insulating plastering system) of the cycle INTOSUGHERO.

APPLICATION

- The surface being plastered must be free of dust and dirt. Any traces of oil, grease, wax etc. must be removed in advance.
- To wet, in advance, not absorbent or dry or exposed to hot climates walls.
- To mix by hand, in a cement mixer or with a mixer on low speed, until when the mixture isn't homogeneous
- To apply with the big american trowel with one or more application in the same day crossing the direction of application. For just one application the thickness don't have to be higher than mm 2. With more application let the product rest for one hour at least.
- The maximum thickness of the finished product don't have to be higher than mm 5.
- Apply on INTOSUGHERO (heat insulating plastering system) between the first and the second coat MALVIN NET network port plaster in glass fiber mesh 4x4 mm of 150 gr min., certified ETAG 004.
- To improve the adhesion and the elasticity to the substrate mix with "INTOELASTIC" diluted 1:5 with clean water.
- With high temperatures, wind and low humidity, we advice you to protect from the quick drying moistening the substrates.
- Don't apply on frozen surfaces, with frost or possible frost in 24 hours.
- Don't apply on lime/gypsum substrate.
- Don't apply on not absorbent or painted substrates.
- 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 with driving rain.
- Don't apply on dehumidifying plasters with a thickness higher than mm 3.
- Don't apply on inconsistent and friable substrates.
- Don't add any other material to the product.

INTOCALCE MAX



- To apply on reinforced concrete substrates, foamed concrete blocks and old plasters previously treated with the bonding mortar "INTOAGGRAPPO".
- To apply on very smooth reinforced concrete substrates previously treated with the adhesion promoter "ANCOMUR".
- On new premixed plasters let the substrate rest for $\frac{3}{4}$ days at least.
- INTOCALCE MAX needs to rest for 20/22 days at least before the decoration.
- We suggest to apply INTOCALCE MAX with a temperature between $+ 5^{\circ} \text{C}$ and $+ 30^{\circ} \text{C}$.

PACKAGING

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

TYPES OF FINISH

B: Skim coat thickness.

F: Decorative plaster for fine smooth or sponged finish.

M: Decorative plaster for medium sponged finish.

SF: Decorative plaster for large sponged finish.

TECHNICAL SPECIFICATIONS COMPLIANT WITH UNI EN 998-1

	B	F	M	SF
Water content of the mix	~35-40%	~35-40%	~35-40%	~35-40%
Max grading EN 1015-1	< 0,6 mm	< 0,6 mm	< 1,3 mm	< 1,3 mm
Specific weight $\pm 5\%$ EN 1515-10	1.200 Kg/m ³	1.200 Kg/m ³	1.300 Kg/m ³	1.400 Kg/m ³
Pot life EN 1015-9	2 ore	2 ore	2 ore	2 ore
Plastic shrinkage in cond. Termoigr. Standard	Absent	Absent	Absent	Absent
Compres. Strength after 28days EN 1015-11	2 N/mm ² (CSI)	2 N/mm ² (CSI)	2,2 N/mm ² (CSI)	2,2 N/mm ² (CSI)
Adhesion on brick EN 1015-12	0,6 N/mm ² FP:A	0,6 N/mm ² FP:A	0,7 N/mm ² FP:A	0,7 N/mm ² FP:A
Water vapor diffusion resistance factor EN 1015-19	$\mu < 6$	$\mu < 6$	$\mu < 7$	$\mu < 7$
Water absorption coeff. dueto capillary action EN 1015-18	Class W1	Class W0	Class W0	Class W0
Fire reaction EN 998-1	Class "A1"	Class "A1"	Class "A1"	Class "A1"
Flessibility	Excellent	Excellent	Excellent	Excellent
Thermal conductivity EN 1745 p.A.12	$\lambda_{10, \text{dry, mat}} = 0,35 \text{ W/mK}$	$\lambda_{10, \text{dry, mat}} = 0,35 \text{ W/mK}$	$\lambda_{10, \text{dry, mat}} = 0,39 \text{ W/mK}$	$\lambda_{10, \text{dry, mat}} = 0,43 \text{ W/mK}$
Durability	NDP	NDP	NDP	NDP
Theoretical yield in Kg/mq for 2 application	1,5-2	1,5-2,5	2-3,2	2,5-3,2
Toxicity - Regulation CE 1272/08	Dangerus	Dangerus	Dangerus	Dangerus
Classification UNI EN 998-1:2010*	GP-CSI-W1 DoP nr. 107	GP-CSI-W1 DoP nr. 108	GP-CSI-W1 DoP nr. 109	GP-CSI-W1 DoP nr. 110

SUMMARY

Interior and exterior walls or the finish of the heat-insulating plastering system (INTOSUGHERO) will be finished with an eco-friendly bio-finish water repellent and fiber reinforced with an high elasticity made of natural hydraulic lime NHL 3,5 or NHL 5 compliant with EN 459-1 with an high breathability, type "INTOCALCE MAX" by MALVIN S.r.l., to apply by hand and to mix just adding water, with fine, medium or large smooth or sponged finish.

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

