

INTOCALCE MUR I



ECO-FRIENDLY BIO-MORTAR PREMIXED BASED ON NATURAL HYDRAULIC LIME NHL 3,5 OR NHL 5 WATER REPELLENT FOR FACING BRICKS
Compliant with UNI EN 998-2

DESCRIPTION

It is a bio-mortar eco-friendly water repellent based on natural hydraulic lime NHL compliant with EN 459-1 for the construction of exterior and interior walls with facing bricks, with an high and constant quality level produced with an automated system, to apply by hand or mechanically. Available with natural hydraulic lime NHL 3,5 or NHL 5 and classification M2,5, M5, depending on the type of the construction, on the sismicity of the areas of use and on the grade of compressive strength required. The natural hydraulic lime NHL ensures a very slow and constant hydraulic hardening that allow to obtain mortars with an high durability and breathability. Does not form 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 with grading from 0 to 1,3 mm, inorganic pigments and colored 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; the low grading allow an uniform grouting of the leaks.

USE

Binder for masonry elements internal – external as solid/hollow bricks, cement blocks, facing solid/hollow bricks, etc. The type M5 can be used as rustic plaster for application by hand or as undercoat to apply mechanically to reinforce masonries in brick previously wet. Don't use for foamed concrete blocks and gypsum panels.

AVIABILITY

BINDERS:

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

RESISTANCE CLASS:

M 2,5
M 5

PRODUCT:

INTOCALCE MUR I:

Natural color;

INTOCALCE MUR I COL:

White or colored;

APPLICATION

- Remove all the crumbling and inconsistent parts from the substrate; eliminating dusts, mud, bitumen, oil stains, etc.
- Don't apply on frozen substrates, with frost or possible frost in 24 hours.
- Be sure that the blocks or the bricks are free of dusts, mud, bitumen, oil stains, etc.
- With high temperatures, wind and low humidity, is recommended to protect from the quick drying moistening the substrates.
- To mix by hand, in a cement mixer or with a mixer at low speed until when the mixture isn't homogeneous; with a continuous mixer regulating the flow-meter until when the density isn't perfect.
- Can be applied at different thicknesses, but never lower to mm 5 or higher than mm 20.

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- Make the leaks with the appropriate tool as soon as the plastic phase of the product is finished.
- Don't apply with strong wind or in very sunny days.
- Don't apply with driving rain.
- Don't apply on inconsistent and friable substrates.
- Don't add any other material to the product.
- We suggest to apply INTOCALCE MUR I with a temperature between + 5 ° C and + 30 ° C.
- To protect the masonries from water for 48 hours at least.
- Buy all the material in one batch to avoid variations of tonality.

YIELD

40/50 kg/mq with solid/hollow and facing bricks 5,5 x 12 x 25 with leak of cm 1.

PACKAGING

Loose in silo (gravity feed).

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

TECHNICAL SPECIFICATIONS COMPLIANT WITH UNI EN 998-2

	M2,5	M5
Water content of the mix	~20-25%	~20-25%
Max grading EN 1015-1	<1,3mm	<1,3mm
Specific weight $\pm 5\%$ EN 1515-10	1.400 Kg/m ³	1.400 Kg/m ³
Pot life EN 1015-9	2 ore	2 ore
Chlorides content EN 1015-17	< 0,1% p/p	< 0,1% p/p
Compres. Strength after 28days EN 1015-11	> 2,5 N/mm ² (M2,5)	> 5 N/mm ² (M5)
Initial shear adhesion (primtour) EN 998-2	0,15 N/mm ²	0,15 N/mm ²
Water absorption coeff. dueto capillary action EN 1015-18	0,40 Kg/(m ² •min ^{0,5})	0,40 Kg/(m ² •min ^{0,5})
Water vapor diff. resistance factor EN 1015-19	5 < μ < 20	5 < μ < 20
Fire reaction EN 998-2	Classe "A1"	Classe "A1"
Durability	NDP	NDP
Thermal conductivity EN 1745 p.A.12	$\lambda_{10, dry, mat} = 0,43$ W/mK	$\lambda_{10, dry, mat} = 0,43$ W/mK
Classification UNI EN 998-2:2010*	G - M2,5 DoP nr. 37	G - M5 DoP nr. 38

* at guaranteed performance (2+)

SUMMARY

Facing masonries will be realized with an eco-friendly bio-mortar for a water repellent masonry based on natural hydraulic lime NHL 3,5 or NHL 5 compliant with EN 459-1 obtained by burning marbly limestones at 950°C, type "INTOCALCE MUR I" by MALVIN S.r.l., applied by hand or mechanically and to mix just adding water, class M2,5 (M5).

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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