

# INTOCALCE PLUS I



**ECO-FRIENDLY WATER REPELLENT BIO-FINISH BASED ON NATURAL HYDRAULIC LIME NHL FOR INTERIORS AND EXTERIORS AND TYPE "FR" FIBER REINFORCED**  
**Compliant with UNI EN 998-1**

## DESCRIPTION

Eco-friendly water repellent premixed bio-finish based on natural hydraulic lime NHL compliant with EN 459-1 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. Available fiber reinforced type "FR". 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 the end of life. Specific for the historical conservative 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 compliant with EN 459-1, selected siliceous aggregates, polypropylene fibers, water repellent agent, natural additives tested for the specific use which give to the product a very high adhesion and workability. Polypropylene fibers type "FR".

## FEATURES

An accurate and selective choice of the main materials, thanks to the use of our own crush system, produces 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 breathable and impact resistant.

It is the perfect base for superficial coatings as paintings, scratch finish, finishing plaster, etc.

## USE

For interiors and exteriors old and new buildings obtaining a float or sponged surface.

To apply on :

Plasters based on natural hydraulic lime, dehumidifying plasters.

Traditional or premixed new plasters based on lime and cement.

Old plasters previously treated with "INTOAGGRAPPO" diluted 1:2 with water.

On reinforced concrete substrates, on foamed concrete blocks previously treated with the bonding mortar type "INTOAGGRAPPO".

To apply in very smooth reinforced concrete substrates previously treated with the adhesion promoter "ANCOMUR".

## APPLICATION

Preparation of the walls and the ceilings removing all the crumbling and inconsistent parts; eliminating dusts, mud, bitumen, oil stains, etc.

- To wet, in advance, particularly absorbent or dry or exposed to hot climates walls.

To mix by hand or with a mixer at low speed, until when the mixture isn't homogeneous.

- To apply with the american big trowel with two or more applications in the same day crossing the direction of application. For just one application is recommended not to exceed the thickness of mm 2. In case of more applications let the substrate rest for one hour at least.

- The maximum thickness of the finished product doesn't have to exceed mm 4.

To apply on new plasters after the substrate has rested for 2/3 days at least.

With high temperatures, wind and low humidity, is recommended to protect from the quick dry moistening the substrates.

- To improve the adhesion and the elasticity to the substrates to mix with "INTOELASTIC" diluted 1:5 with clean water.

- 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 with strong wind or in very sunny days.

- 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 apply until when the substrate isn't completely dried.

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- Don't add any other material to the product.
- We suggest to apply INTOCALCE PLUS I with a temperature between + 5 ° C and + 30 ° C.
- After the application wet and smooth with a spatula or finish with a sponge float depending on the type used.
- Let the product mature completely before applying the decoration, for 20/22 days at least.

## PACKAGING

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

## TECHNICAL SPECIFICATIONS COMPLIANT WITH UNI EN 998-1

Water content of the mix	~35-40%
Grading EN 1015-1	<0,6mm
Specific weight± 5% EN 1015-10	1.200 Kg/m <sup>3</sup>
Pot life EN 1015-9	2 Hours
Plastic shrinkage in termoigr. stand. cond.	Absent
Compressive strength after 28 days EN 1015-11	2N/mm <sup>2</sup> (CSI)
Adhrsion after 28 days EN 1015-12	0,5 N/mm <sup>2</sup>
Water absrption coeff. due to capillary action EN 1015-18	W1
Water vapor diff.resistance fator EN 1015-19	$\mu < 6$
Fire reation EN 998-1	Class "A1"
Thermal conductivity EN 1745 p.A.12	$\lambda_{10,dry,mat} = 0,35 \text{ W/mK}$
Durability	NPD
Theoretical yield in Kg/mq for 2 application	1,5-2,5
Toxicity - Regulation CE 1272/08	Dangerus
Classification UNI EN 998-1:2010	GP-CSI-W1 DOP nr. 112
Classification UNI EN 998-1:2010 TYPE "I"	GP-CSI-W1 DOP nr. 114

## SUMMARY

Internal and external walls will be finished with a premixed eco-friendly bio-finish based on natural hydraulic lime NHL compliant with EN 459-1, type "INTOCALCE PLUS I" or type "FR" fiber reinforced by MALVIN S.r.l. , applied by hand and to mix just adding water, with fine 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



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