



# INTOCALCE SANA FIN



**BIO-FINISH ECO-FRIENDLY BASED ON NATURAL HYDRAULIC LIME NHL 3,5 OR NHL 5 FOR DEHUMIFYING PLASTERS FOR INTERIORS AND EXTERIORS AND TYPE "I" WATER REPELLENT AND TYPE "FR" FIBER REINFORCED**  
Compliant with UNI EN 998-1

## DESCRIPTION

Bio-finish eco-friendly made of natural hydraulic lime NHL 3,5 or NHL 5 compliant with EN 459-1 with an high breathability, suitable for the finishing of substrate plasters macroporous for the dehumidification 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. Doesn't form vapor barriers and contains no solvents. Recyclable as inert at end of life. Specific for the historic conservative restoration, thanks to the natural origin of its components that respect the nature of the materials originating in the structures of historical interest. Available also water repellent type "I" and fiber reinforced type "FR".



## COMPOSITION

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

## AVIABILITY

### BINDER:

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

### PRODUCT:

**INTOCALCE SANA FIN:**

**INTOCALCE SANA FIN FR:**

**INTOCALCE SANA FIN I:**

**INTOCALCE SANA FIN I FR:**

Normal;  
Fiber reinforced;  
Water repellent;  
Water repellent, fiber reinforced;

## 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 finish can be applied directly on every kind of interior and exterior to finish. No cracks, no detachment, breathable and impact resistant. It is the perfect base for coatings and breathable paints to enhance the breathability of INTOCALCE SANA FIN.

## USE

- For the finishing of dehumidifying plasters on interiors and exteriors of old and new buildings obtaining a surface sponged or float finish.
- To apply directly on the plaster based of hydraulic lime type INTOCALCE SANA and on all lime-based plasters, traditional and premixed, old and new, on restoration plasters and historic restoration conservative.
- applicaTion
- The surface being plastered must be free of dust and dirt. Any traces of oil, grease, wax etc. must be removed in advance.
- Need to wet, previously, the walls particularly absorbent or dried or exposed to hot climates.
- To mix by hand or with a mixer at low rpm, until the mixture is homogeneous.
- To apply with the big american trowel performing two or more applications in the same day by crossing the direction of application. For just one application don't exceed a thickness of 2 mm. with more application let the product rest for one hour at least.
- The maximum thickness of the finished product should not be higher than 5 mm.
- With high temperatures, wind and low humidity, we advice you to protect from the quick desiccation damping the substrates.
- 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 until when the substrate isn't completely dried.
- Don't apply with driving rain.



# INTOCALCE SANA FIN



- Don't apply on dehumidifying plasters with a thickness higher than mm 3.
- Don't apply on inconsistent and fragile substrates.
- Don't add any other material to the product.
- 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 premixed new plasters let the substrate rest for 3/4 days at least.
- Let INTOCALCE SANA FIN rest for 20/22 days before the decoration.
- We suggest to apply INTOCALCE SANA FIN with a temperature between + 5 ° C and + 30 ° C.

## PACKAGING

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

## TYPES OF FINISHES

- B:** Skim coat thickness.  
**FB:** Decorative plaster for fine smooth or sponged finish.  
**MB:** Decorative plaster for sponged medium finish.  
**SFB:** Decorative plaster for sponged coarse finish.

## TECHNICAL SPECIFICATIONS COMPLIANT WITH UNI EN 998-1

	B	FB	MB	SF B
Water content of the mix	~35/40%	~35/40%	~35/40%	~35/40%
Grading EN 1015-1	<0,6mm	<0,6mm	<1,3mm	<1,3mm
Specific weight ± 5% EN 1015-10	1.200 Kg/m <sup>3</sup>	1.200 Kg/m <sup>3</sup>	1.300 Kg/m <sup>3</sup>	1.400 Kg/m <sup>3</sup>
Pot life EN 1015-9	2 hours	2 hours	2 hours	2 hours
Plastic shrinkage in termoigr. stand. cond.	Absent	Absent	Absent	Absent
Compressive strength after 28 days EN 1015-11	1,5 N/mm <sup>2</sup> (CSI)	1,5 N/mm <sup>2</sup> (CSI)	1,8 N/mm <sup>2</sup> (CSI)	1,8 N/mm <sup>2</sup> (CSI)
Adhrsion after 28 days EN 1015-12	0,3 N/mm <sup>2</sup> FP:b	0,3 N/mm <sup>2</sup> FP:b	0,4 N/mm <sup>2</sup> FP:b	0,4 N/mm <sup>2</sup> FP:b
Water vapor diff.resistance fator EN 1015-19	μ < 6	μ < 6	μ < 7	μ < 7
Water absrption coeff. due to capillary action EN 1015-18	≤0,3 Kg/m <sup>2</sup> dopo 24 ore (R)	≤0,3 Kg/m <sup>2</sup> dopo 24 ore (R)	≤0,3 Kg/m <sup>2</sup> dopo 24 ore (R)	≤0,3 Kg/m <sup>2</sup> dopo 24 ore (R)
Fire reation EN 998-1	Class "A1"	Class "A1"	Class "A1"	Class "A1"
Thermal conductivity EN 1745 p.A.12	λ <sub>10,dry,mat</sub> = 0,35 W/mK	λ <sub>10,dry,mat</sub> = 0,35 W/mK	λ <sub>10,dry,mat</sub> = 0,39 W/mK	λ <sub>10,dry,mat</sub> = 0,43 W/mK
Durability	NDP	NDP	NDP	NDP
Toxicity - Regulation CE 1272/08	Danger	Denger	Denger	Denger
Theoretical yield in Kg/mq for 2 application	1,5-2	1,5-2,5	2-3,2	2,5-3,2
Classification UNI EN 998-1:2010	R-C S1 • Dop nr. 152	R-C S1 • Dop nr. 152	R-C S1 • Dop nr. 154	R-C S1 • Dop nr. 154
Classification UNI EN 998-1:2010 TYPE "I"	R-C S1 • Dop nr. 153	R-C S1 • Dop nr. 153	R-C S1 • Dop nr. 155	R-C S1 • Dop nr. 155

## SUMMARY

Internal and external dehumidifying plasters will be finished with an eco-friendly bio-finish made of natural hydraulic lime NHL 3,5 o NHL 5 compliant with EN 459-1 type "INTOCALCE SANA FIN" or water repellent type "I" or fiber reinforced "FR" by MALVIN S.r.l., applied by hand and to mix just adding water, with a float or sponged finish, fine, medium or coarse.

*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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