# INTOCALCE CPP


## ECO-FRIENDLY BIO-ADHESIVE AND BIO-SKIM COAT PLASTER BASED ON NATURAL HYDRAULIC LIME NHL FOR MINERAL INSULATING PANELS, CORK, WOOD CEMENT, POLYSTYRENE (ALSO EMBOSSED), POLYURETHANE COMPLIANT WITH UNI EN 998-1

### DESCRIPTION

Eco-fiendly premixed bio-adhesive and skim coat plaster based on natural hydraulic lime NHL 3,5 compliant with EN 459-1, with an high breathability and an high and constant quality level, produced with an automated system, to apply by hand, specific for the anchorage and the skim coating of the insulating mineral panels, cork, wood cement, polystyrene (also embossed), polyurethane. 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 compliant with EN 459-1 obtained by burning marbly limestones at 950°C, natural lime, selected siliceous aggregates with grading from 0 to 0,6 mm, additives tested for the specific use which give to the product a very high adhesion and elasticity.

### 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 an adhesive lays perfectly on every kind of ground interior and exterior but if they are stable; as skim coat plaster adheres perfectly on every kind of insulating panels. No cracks, no detachment it's breathable and impact resistant. It is the perfect adhesive and skim coat plaster for the laying and the skim coating inside and outside of the mineral insulating panels, cork, wood cement, polystyrene (also embossed), and polyurethane.

### USE

INTOCALCE CPP is a premixed bio-adhesive/bio-skim coat plaster at compensated shrinkage and controlled drying, frost-proof with excellent registrability, excellent resistance to moisture, aging, acids and alkalis. Perfect for the anchorage and the skim coating of insulating panels, to be applied as:

### ADHESIVE

Directly on every kind of interior and exterior if stable as: brick and insulating brick, mixed masonries or in stones or in tuff, plasters based on cement old and new, concrete. Specific for the laying of every kind of insulating panels.

### SKIM COAT PLASTER

Directly on every kind of insulating panels. Suitable for his skills of adhesion and elasticity, also on concrete surfaces, rustic coatings, plastic and/or mineral, traditional or premixed plasters based on lime and cement both old and new even if painted but in excellent conditions, on plasters with shrinkage lesions, with application on the first coat of MALVIN NET network port plaster in glass fiber maglia 4x4mm of 150 gr at least, certified ETAG 004.

### APPLICATION

- Remove from the substrates 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 till when the mixture isn't homogeneous.
- INTOCALCE CPP as glue is applied on the insulating panels for curbs or with a notched trowel, compressing INTOCALCE CALCE on the panels first with the smooth side of the trowel and then with the notched part in order to homogenize the absorption thus not affecting the performance of the product.
- Apply then panels a giunti sfalzati and then proceed to the mechanical fixing with special plastic pitons.
- For difficult substrates to mix INTOCALCE CPP with latex "INTOELASTIC".
- To improve the adhesion to the substrate and the elasticity mix with "INTOELASTIC" diluted 1:5 with clean water.
- INTOCALCE CPP as skim coat plaster must be applied on insulating panels after 3 days at least from the application, apply a first coat in which drow a network port plaster in glass fiber specific for external thermal insulation composite system and apply then a second application taking care to cover completely the network and so make the surface perfect to receive a colored coating.

# INTOCALCE CPP

- With high temperatures, wind and low humidity, is recommended to protect from the quick dry moistening the substrates.
- To apply on concrete without dust and stains of form release agents.
- Don't apply on frozen substrates, with frost or possible frost in 24 hours.
- Don't apply with strong wind or in very sunny days.
- Don't apply on inconsistent and friable substrates.
- Don't apply until when the substrate isn't completely dried.
- Don't apply with driving rain.
- Don't add any other material to the product.
- We suggest to apply INTOCALCE CPP with a temperature between + 5 ° C and + 30 ° C.
- Waiting time for the application of colored coating 22 days at least.

**YIELD**

**AS ADHESIVE**
Sticking per points 2/3 kg/mq;
Sticking at full surface 4/5 kg/mq.

**AS SKIM COAT PLASTER**
3/4 kg/mq for 2 coats.

**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**

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|---|---|
| **Water content of the mix** | ~25-30% |
| **Grading EN 1015-1** | ≤ 0,6 mm |
| **Specific Weight EN 1015-10** | 1.200 kg/m$^3$ ± 10% |
| **PH mixed** | 12 |
| **Plastic shrinkage in cond. Termoigr. Standard** | Absent |
| **Time correction EN 1015-9** | 30 minutes |
| **Workability time** | 6 hours |
| **Compressive strength after 28 days EN 1015-11** | ≥ 5 N/mm$^2$ (CS III) |
| **Flexural strength after 28 days EN 1015-11** | ≥ 2 N/mm$^2$ |
| **Flexibility** | Excellent |
| **Adhesion on brick after 28 days EN 1015-12** | >1,5 N/mm$^2$ FP: A |
| **Water vapor diffusion resistance factor EN 1015-19** | μ ≤ 10 |
| **Water absorption coeff. due to capillary action EN 1015-18** | Class "W1" |
| **Fire reaction EN 998-1** | Class "A1" |
| **Thermal conductivity coefficient EN 1745 p.a. 12** | $\lambda_{10,dry,mat}$ = 0,35 W/mK |
| **Durability** | NPD |
| **Toxicity - Regulation CE 1272/08** | Danger |
| **Classification UNI EN 998-1:2010** | GP-CSIII-W1/DOP nr. 149 |

**CERTIFICATIONS**
Tested in accordance to ETAG 004

**SUMMARY**
The gluing and the skim coating of the mineral insulating panels, cork, wood cement, polystyrene (also embossed), polyurethane inside and outside; the skim coating of concrete surfaces, rustic coatings, plastic and/or mineral, traditional or premixed plasters based on lime and cement both old and new even if painted but in excellent condition, of plasters showing shrinkage lesions, will be realized with an eco-friendly bio-adhesive/bio-skim coat plaster powder based on natural hydraulic lime NHL 3,5 compliant with EN 459-1 type "INTOCALCE CPP" by MALVIN S.r.l., to apply by hand and to mix just adding water, with a consumption of 2/5 kg/mq as adhesive and of 3/4 kg/mq as skim coat plaster, with a compressive strength after 28 days category CS III .

***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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