

# Biocalce Intonachino Tipo "00"

Certified, eco-friendly, natural finishing coat containing pure NHL 3.5, EN 459-1 compliant lime for highly breathable polished finishing of plasters/renders.

Biocalce Intonachino Tipo "00" is a breathable finish coat for polished surface finishing of conventional plaster/render coats and in Biocalce restoration cycles.



## Rating 4

1. Natural, porous and highly breathable, allows walls to breath
2. Natural bacteriostatic and fungistatic classified B+ e F+ (CSTB method)\*\*
3. Internal, external
4. Soft, lightweight mixture for fast spreading
5. Long workability and excellent finishing coat

- ✓ Pollution Reduced
- ✓ Bacteriostatic
- ✓ VOC Low Emission
- ✓ CO<sub>2</sub> Emission ≤ 250 g/kg
- × Recycled Regional Mineral ≥ 30%

# kerakoll

\*\*Tests carried out according to CSTB method, bacterial and fungal contamination

## Natural Ingredients



Pure NHL 3.5 certified natural lime



CL 90 Calcium Lime



Pure Fine White Carrara Marble  
(0 – 0.2 mm)



Mineral geo-binder

## Areas of application

### → Intended use:

Breathable finishing product (grain size 0 – 0.2 mm) for conventional and Biocalce restoration plaster/render coats, for internal and external use.

Biocalce Intonachino Tipo “00” is particularly suited in Edilizia del Benessere (Building for Wellness) for polished finishing of plastered masonry surfaces. The all-natural origin of its ingredients guarantees compliance with the required levels of porosity, hygroscopicity and breathability.

Biocalce Intonachino Tipo “00” is suitable for natural, breathable finishing coats in Historical

Restoration, where the choice of traditional materials such as natural lime and pure fine white Carrara marble, mixed in carefully-studied proportions, guarantees conservative interventions in full respect of the existing structures and original materials.

Do not use on dirty, non-cohesive, powdery substrates. On previous paint coats or lime putty coverings. On substrates with interstitial salt deposits. Do not apply directly on gypsum-based plasters/renders: eco-friendly Rasobuild Eco Consolidante surface insulation must be applied first.

## Instructions for use

### → Preparation of substrates

The substrate must be clean and solid, free from loose debris, dust and mould. Old plasters must be dry, in good condition, compact and cleaned carefully to remove any remaining traces of previous processes (lime putty coverings, old finishing coats, etc.). Scratch off the surfaces of new plaster coats with a metal scraper to remove the surface cement slurry, to make it easier to then lay the finish layer without air bubbles forming. Before finishing, always wet substrates.

### → Preparation

To prepare Biocalce Intonachino Tipo “00” mix one 20 kg bag with about 10 l of clean water. The mixture is obtained by pouring water into the container and then gradually adding the powder. The mixing process can be performed in a cement mixer, in a bucket (working manually or with a low-rev, mechanical stirring device) or using a continuous mixer until a smooth and lump-free mortar is obtained. Use all of prepared mixture; do not reuse it in subsequent mixings. Store the product in places protected against

the heat in summer months and against the cold during the winter. Use running water not subject to the influence of outside temperatures.

Adding cement in any quantity would impair the quality of the mortar which is guaranteed by its all-natural origins.

### → Application

Biocalce Intonachino Tipo “00” is as easy to apply with a smooth spreader as a conventional gypsum-based finishing product. Prepare and dampen the plaster/render surface then apply a first coat of the product using a smooth spreader. Press down hard to ensure adhesion and to force the air out of the pores. Then apply the next coats until the required finish is obtained.

Allow the hardened product to cure and keep it moistened during the first 24 hours.

### → Cleaning

Biocalce Intonachino Tipo “00” is a natural product and tools can be cleaned using only water before the product hardens.

## Special notes

→ Biocalce Intonachino Tipo “00” is a non-pigmented natural hydraulic lime product, hence the colour may vary from production batch to batch.

→ Furthermore, being a mineral product, the colour of the hardened, dried finish will vary depending on substrate absorption and weather conditions during application.

## Certificates and marks



\* Émission dans l'air intérieur Information sur le niveau d'émission de substances volatiles dans l'air intérieur, présentant un risque de toxicité par inhalation, sur une échelle de classe allant de A+ (très faibles émissions) à C (fortes émissions).

## Abstract

*In Edilizia del Benessere (Building for Wellness) and Historical Restoration, fine-grain plaster polished finishing coats of an overall thickness of no more than 2 mm are created using very high porosity, hygroscopic, and breathable pure NHL 3.5 natural hydraulic lime containing pure white Carrara marble inert materials, providing active natural ventilation to improve indoor air quality and acting as a natural bacteriostatic and fungistatic agent, GreenBuilding Rating 4 (such as Biocalce Intonachino Tipo “00”)\*\*.*

*The required characteristics, obtained exclusively through the use of raw materials of all-natural origin, guarantee a good adhesion to support ( $\geq 0.3 \text{ N/mm}^2$ ).*

*Biocalce Intonachino Tipo “00” coverage:  $\approx 1 \text{ kg/m}^2$  per mm of thickness.*

*\*\* Tests carried out according to CSTB method, bacterial and fungal contamination*

**Technical Data compliant with Kerakoll Quality Standard**

Type of mortar	mortar for internal, external finishing layers	
Chemical nature of binder	pure Natural Hydraulic Lime NHL 3.5/CL 90-S	EN 459-1
Grading	0 – 200 µm	EN 1015-1
Apparent density of powder	≈ 0.871 kg/dm <sup>3</sup>	UEAtc
Shelf life	≈ 12 months from production in the original sealed packaging, protect from humidity	
Pack	20 kg bags	
Mixing water	≈ 10 l / 1 bag 20 kg	
Consistency of wet mortar	≈ 196 mm	EN 1015-3
Apparent density of wet mortar	≈ 1.60 kg/dm <sup>3</sup>	EN 1015-6
Apparent density of dry, hardened mortar	≈ 1.42 kg/dm <sup>3</sup>	EN 1015-10
pH of the mixture	≥ 12	
Temperature range for application	from +5 °C to +30 °C	
Max thickness	≈ 2 mm	
Coverage	≈ 1 kg/m <sup>2</sup> per mm of thickness	

Values taken at +20 ± 2 °C, 65 ± 5% R.H. and no ventilation. Data may vary depending on specific conditions at the building site.

**Performance****VOC Indoor Air Quality (IAQ) - Volatile organic compound emissions**

Conformity	EC 1 plus GEV-Emicode	GEV certified 2755/11.01.02
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**Active INDOOR AIR QUALITY (IAQ) - Dilution of indoor pollutants \***

	Flow	Dilution	
Toluene	318 µg m <sup>2</sup> /h	+4%	JRC method
Pinene	413 µg m <sup>2</sup> /h	+4%	JRC method
Formaldehyde	7369 µg m <sup>2</sup> /h	test failed	JRC method
Carbon dioxide (CO <sub>2</sub> )	585 mg m <sup>2</sup> /h	+4%	JRC method
Humidity (Humid Air)	84 mg m <sup>2</sup> /h	+18%	JRC method

**Bioactive INDOOR AIR QUALITY (IAQ) - Bacteriostatic action \*\***

<i>Enterococcus faecalis</i>	Class B+ no proliferation	CSTB method
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**Bioactive INDOOR AIR QUALITY (IAQ) - Fungistatic action \*\***

<i>Penicillium brevicompactum</i>	Class F+ no proliferation	CSTB method
<i>Cladosporium sphaerospermum</i>	Class F+ no proliferation	CSTB method
<i>Aspergillus niger</i>	Class F+ no proliferation	CSTB method

**HIGH-TECH**

Reaction to fire	class A1	EN 13501-1
Compressive strength after 28 days	≥ 1.29 N/mm <sup>2</sup>	EN 1015-11
Adhesion to support	≥ 0.3 N/mm <sup>2</sup>	EN 1542

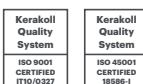
Values taken at +20 ± 2 °C, 65 ± 5% R.H. and no ventilation. Data may vary depending on specific conditions at the building site.

\*Tests carried out according to JRC method - Joint Research Centre - European Commission, Ispra (Varese, Italy) - to measure the reduction of polluting substances in indoor environments (Indoortron Project). Flow and speed in proportion to a standard cement-based finishing product (3 mm).

\*\*Tests carried out according to CSTB method, bacterial and fungal contamination

## Warning

- Product for professional use
- abide by any standards and national regulations
- use at temperatures between +5 °C and +35 °C
- make sure the substrate is not frozen
- protect surfaces from direct sunlight and wind
- do not apply on dirty or loose surfaces
- dampen walls before application
- allow the hardened product to cure and keep it moistened during the first 24 hours
- if necessary, ask for the safety data sheet
- for any other issues, contact the Kerakoll Worldwide Global Service +39 0536 811 516 - [globalservice@kerakoll.com](mailto:globalservice@kerakoll.com)



The Rating classifications refer to the GreenBuilding Rating Manual 2013. This information was last updated in July 2023 (ref. GBR Data Report – 0723); please note that additions and/or amendments may be made over time by KERAKOLL SpA; for the latest version, see [www.kerakoll.com](http://www.kerakoll.com). KERAKOLL SpA shall therefore be liable for the validity, accuracy and updating of information provided only when taken directly from its institutional website. The technical data sheet given here is based on our technical and practical knowledge. As it is not possible for us to directly check the conditions in your building site and the execution of the work, this information represents general indications that do not bind Kerakoll in any way. Therefore, it is advisable to perform a preliminary test to verify the suitability of the product for your purposes.