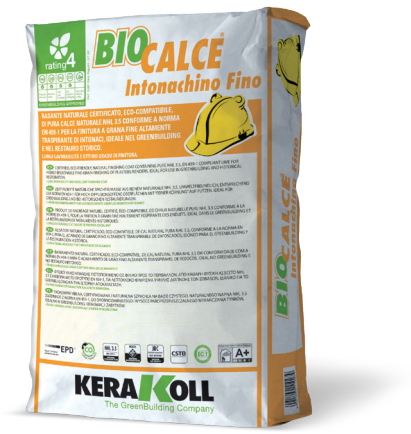
Biocalce Intonachino Fino

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

Biocalce Intonachino Fino is a breathable finish coat for the fine-grain surface finishing of conventional plaster/render coats and in Biocalce restoration cycles.



GREENBUILDING RATING
REF. GBR DATA REPORT 07.23
APPROVED

Rating 4

- ✓ Pollution Reduced
- ✓ Bacteriostatic
- ✓ VOC Low Emission
- ✓ CO_2 Emission ≤ 250 g/kg
- × Recycled Regional Mineral ≥ 30%

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

kerakoll

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

Natural Ingredients

Pure NHL 3.5 certified natural lime

Pure Fine White Carrara Marble (0 – 0.2 mm)

Siliceous washed natural river sand (0.1 – 0.5 mm)

Pure Fine White Carrara Marble (0 – 0.5 mm)

Areas of application

→ Intended use:
Breathable finishing product (grain size 0 – 0.5 mm) for conventional and Biocalce restoration plaster coats, for internal and external use. Biocalce Intonachino Fino is particularly good for the fine-grain finishing of plastered masonry surfaces in Edilizia del Benessere (Building for Wellness) in which the all-natural ingredients guarantee compliance with the required levels of porosity, hygroscopicity and breathability. Biocalce Intonachino Fino is suitable for natural, breathable finishing coats in Historical Restoration, where the choice of traditional materials such as natural lime, stone, marble and granite, 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 a lot of 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 Fino, mix one 25 kg bag with about 9 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 Fino is as easy to apply with a smooth spreader as a conventional finishing product. Prepare and dampen the plaster surface then apply a first coat of the product using a trowel or 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. Finish off with a sponge spreader, float or smooth spreader according to the type of finish required. Allow the hardened product to cure and keep it moistened during the first 24 hours.

→ Cleaning
Biocalce Intonachino Fino is a natural product and tools can be cleaned with water before the product hardens.

Special notes

→ Biocalce Intonachino Fino 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 finishing coats of an overall thickness of no more than 3 mm are created using very high porosity, hygroscopic, and breathable pure NHL 3.5 natural hydraulic lime containing fine Dolomitic lime marble inert materials, providing natural ventilation to improve indoor air quality and acting as a natural bacteriostatic and fungistatic agent, and GreenBuilding Rating 4 (such as Biocalce Intonachino Fino)**. The required characteristics, obtained exclusively through the use of raw materials of all-natural origin, guarantee a good adhesion to support (≥ 0.3 N/mm²). Float, sponger or spreader application, excluding frame scaffolding hire, including mobile or temporary scaffolding.*
Coverage Biocalce Intonachino Fino: ≈ 1.6 kg/m² 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	EN 459-1
Grading	0 – 500 µm	EN 1015-1
Apparent density of powder	≈ 1.45 kg/dm³	UEAtc
Shelf life	≈ 12 months from production in the original sealed packaging, protect from humidity	
Pack	25 kg bags	
Mixing water	≈ 9 l / 1 x 25 kg bag	
Consistency of wet mortar	≈ 196 mm	EN 1015-3
Apparent density of wet mortar	≈ 1.95 kg/dm³	EN 1015-6
Apparent density of dry, hardened mortar	≈ 1.64 kg/dm³	EN 1015-10
pH of the mixture	≥ 12	
Temperature range for application	from +5 °C to +35 °C	
Max thickness	≈ 5 mm	
Coverage	≈ 1.6 kg/m² 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 2754/11.01.02
Active INDOOR AIR QUALITY (IAQ) - Dilution of indoor pollutants *			
	Flow	Dilution	
Toluene	319 µg m²/h	+5%	JRC method
Pinene	448 µg m²/h	+13%	JRC method
Formaldehyde	7699 µg m²/h	+4%	JRC method
Carbon dioxide (CO_2)	558 mg m²/h	test failed	JRC method
Humidity (Humid Air)	86 mg m²/h	+21%	JRC method
Bioactive INDOOR AIR QUALITY (IAQ) - Bacteriostatic action **			
Enterococcus faecalis	Class B+ no proliferation		CSTB method
Bioactive INDOOR AIR QUALITY (IAQ) - Fungistatic action **			
Penicillum brevicompactum	Class F+ no proliferation		CSTB method
Cladosporium sphaerospermum	Class F+ no proliferation		CSTB method
Aspergillus niger	Class F+ no proliferation		CSTB method
HIGH-TECH			
Reaction to fire	class A1		EN 13501-1
Compressive strength after 28 days	≥ 1 N/mm²		EN 1015-11
Adhesion to support	≥ 0.3 N/mm²		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

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