Biocalce Intonachino Granello

Breathable finishing product based on NHL 3.5 natural hydraulic lime for medium-grain finishing of conventional plasters/ renders.



Biocalce Intonachino Granello is a medium-grain (< 1.4 mm), breathable finishing product suitable for the finishing of plasters/renders, for dehumidifying systems and for historical restorations, as the final stage of Biocalce cycles.

1. **Cement-free**
2. **Highly breathable**
3. **Long workability and excellent finishing coat**
4. **Reduces formaldehyde (standard ISO 16000-23)**
5. **Bacteriostatic and fungistatic product (standard ISO 846 A/B/C)**
6. **For internal and external use**

kerakoll

Areas of application

→ Use
It is particularly suitable for medium-grain finishings on plastered/rendered surfaces. For internal and external use. It ensures high levels of porosity, hygroscopicity and breathability – essential requirements for maintaining a comfortable living environment and healthy indoor conditions.

Cement-free. Thanks to its formulation based on natural hydraulic lime, it is suitable for historical restorations and conservative interventions in full respect of the existing structures and original materials.

Do not use on dirty, non-cohesive, powdery substrates; on not suitably-prepared substrates; on old paints or lime putty coverings; on substrates with a lot of interstitial salt deposits. Do not apply directly to gypsum-based plasters/renders; if that is the case, prior treatment with Rasobuild Consolidante is required.

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 Granello, mix one 25 kg bag using about 8 litres 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.

→ Application
Biocalce Intonachino Granello 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. In case of heterogeneous surfaces, it is recommended to embed the Rinforzo V 40 or Rinforzo V 50 fibreglass reinforcing mesh into a first coat of freshly applied product, pressing it down with a spreader.
When curing has been completed, apply a second coat of the finishing product, covering the mesh completely in order to create a surface suitable for the application of any decorative layers once dry.

→ Cleaning
Tools can be cleaned with water before the product hardens.

Special notes

→ Biocalce Intonachino Granello 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

Surface finishing will be carried out using a medium-grain, breathable finishing product made of pure NHL 3.5 natural hydraulic lime containing fine Dolomitic lime marble inert materials, 0 – 1.4 mm grading according to standard EN 1015-1, such as Biocalce Intonachino Granello by Kerakoll. Certified technical characteristics: adhesion to support ≥ 0.2 N/mm² according to standard EN 1542, reaction to fire class A1, volatile organic compound emissions EC1 Plus GEV-Emicode-certified, bacteriostatic and fungistatic according to standard ISO 846 A/B/C, helps to reduce formaldehyde according to standard ISO 16000-23, compliant with the CAM - (Minimum Environmental Criteria) requirements of paragraphs 1.3.2, 2.6.3, 3.2.4, 2.1.2, 2.6.6, 2.3.17, 2.5.4, 2.4.1, 3.2.6 and 3.2.2 of the Italian Ministerial Decree 24/11/2025, with EPD environmental certification according to standards ISO 14025:2006 and EN 15804:2012+A2:2019/AC:2021.
Coverage Biocalce Intonachino Granello ≈ 1.5 kg/m² per mm of thickness.

Technical Data compliant with Kerakoll Quality Standard		
Type of mortar	mortar for internal, external finishing layers	
Chemical nature of binder	Natural hydraulic lime NHL 3.5	EN 459-1
Grading	0 – 1.4 mm	EN 1015-1
Apparent density of powder	≈ 1.4 kg/dm³	UEAtc
Shelf life	≈ 12 months from production in the original sealed packaging, protect from humidity	
Pack	25 kg bags	
Mixing water	≈ 8 l / 1 25 kg bag	
Consistency of wet mortar	≈ 180 mm	EN 1015-3
Apparent density of wet mortar	≈ 1.83 kg/dm³	EN 1015-6
Apparent density of dry, hardened mortar	≈ 1.58 kg/dm³	EN 1015-10
pH of the mixture	≥ 12	
Temperature range for application	from +5 °C to +35 °C	
Max thickness	≈ 10 mm	
Coverage	≈ 1.5 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 relating to indoor environmental quality			
VOC – Volatile organic compound emissions			
Conformity	EC 1 plus GEV-Emicode		GEV certified 2753/11.01.02
Formaldehyde reduction – standard ISO 16000-23			
The product helps to reduce formaldehyde levels			
Dilution of indoor pollutants *			
	Flow	Dilution	
Toluene	321 µg m²/h	+5%	JRC method
Pinene	460 µg m²/h	+16%	JRC method
Formaldehyde	7766 µg m²/h	+5%	JRC method
Carbon dioxide (CO_2)	569 mg m²/h	+1%	JRC method
Humidity (Humid Air)	90 mg m²/h	+26%	JRC method

*Tests carried out in-house in accordance with a test method developed in collaboration with the JRC: 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).

HIGH-TECH

Performance characteristic	Test methods	Requirements of standard	Performance
Compressive strength after 28 days	EN 1015-11	Reference class	≥ 1 Mpa
Substrate adhesion	EN 1015-12	None	≥ 0,2 Mpa
Water vapour permeability coefficient (µ)	EN 1015-19	Declared value	µ=6
Thermal conductivity ($\lambda_{10,\ dry}$)	EN 12667	table value	0.54 W/mK
Reaction to fire	EN 13501-1	Euroclass	A1

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

Warning

→ 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

Kerakoll Quality System ISO 9001 CERTIFIED IT10/0327
Kerakoll Quality System ISO 45001 CERTIFIED 18586-I

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