

Biocalce® Intonachino Colorato



Certified, eco-friendly, fine mineral plaster/render based on selected pure CL 90-S lime putty compliant with EN 459-1 standard and containing natural coloured minerals and marble fillers, for the highly breathable decoration of plaster and render coats, ideal for use in GreenBuilding and Historical Restoration. Bacteriostatic and fungistatic product. Contains raw materials of only natural origin, provides natural ventilation to improve indoor air quality, safeguards the health of both operators and the environment.

Biocalce® Intonachino Colorato is especially recommended for the breathable decoration of Biocalce® conventional and restoration plaster and render coats and for use in high-thickness applications.



GREENBUILDING RATING®

Biocalce® Intonachino Colorato
 - Category: Inorganic Natural Semi-fluids
 - Mortars, plasters/renders and natural decoration

Rating based on average colour formulations

Highly effective (5/5)
 No development of bacteria or fungi
 Non-toxic and non-hazardous
 No environmental hazard rating

PRODUCT STRENGTHS

- Natural, made of lime putty and natural minerals
- Allows walls to breath
- Suitable for the decoration of conventional and restoration plaster/render coats
- Available in 3 grain sizes: 0.5 mm - 0.7mm - 1.2 mm
- Bacteriostatic and fungistatic product (CSTB method)**

NATURAL INGREDIENTS

	Pure CL90 lime putty		Pure Fine White Carrara Marble (0-0.5 mm)
	Natural earth powder pigments and coloured minerals		
	Fine grain Dolomitic limestone (0.5 mm, 0.7 mm, 1.2 mm)		

AREAS OF USE

Use
 Coloured breathable fine mineral plaster/render for the decoration of Biocalce® conventional and restoration plaster/render coats using the high-thickness application method.
 Biocalce® Intonachino Colorato is particularly well suited to achieve decorations of high aesthetic quality in Edilizia del Benessere® (Building for Wellness) in which the all-natural ingredients guarantee compliance with the required levels of breathability.
 Biocalce® Intonachino Colorato is suitable for decoration in Historical Restoration projects, where the choice of traditional materials such as natural lime, natural coloured pigments and minerals, mixed in carefully-studied proportions, guarantees conservation interventions in full respect of the existing structures and original materials.

Do not use
 On wet substrates (not cured); on substrates which are dirty, non-cohesive, powdery. On previous paint coats or lime putty coverings. On walls subject to capillary moisture rising without prior application of dehumidifying plasters/renders.

INSTRUCTIONS FOR USE

Preparation of substrates
 The substrate must be cured, clean and solid, free from loose debris, dust and mould. Old plaster/render must adhere to the masonry structure and must be damage-free, dry, carefully cleaned to remove remaining traces of previous processes (lime putty coverings, old finishing coats, etc.) and suitably finished using products from the Biocalce® Intonachino finishing line according to the level of finish and smoothness of the plaster/render and the required aesthetic effect.
 Preparation of new or old substrates using products in the Biocalce® Intonachino finishing line helps save time and colour product, guaranteeing a superior quality decorative layer.

* 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).

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

INSTRUCTIONS FOR USE

Treat surfaces in advance with Biocalce® Fondo or Biocalce® Fondo Universale before applying the coloured fine render/plaster. Apply Biocalce® Fondo Universale before applying Biocalce® Intonachino Colorato to indoor surfaces coated with gypsum, plasterboard or synthetic paints. Particular care must be taken during summer and when working in direct sunlight: provide shade cloths. In the case of plastered surfaces that have been repaired or patched, these must be allowed to cure for at least 30 days. To even up the absorption in old or flaky substrates use one or more coats of Biocalce® Fondo according to the level of absorption found. For the treatment of substrates other than those mentioned and for additional information on the types of intervention to be carried out, we recommend to consult Kerakoll's Guide to decorating and preparing substrates.

Preparation

The feature of Biocalce® Intonachino Colorato is the fact that it can be used to decorate indoor and outdoor plaster, in a number of coats according to the effect required, with a lime-filling technique simply using ready-to-use, coloured lime putty. Mix in advance working manually or with a low-rev, mechanical stirring device until a smooth paste is obtained. Under no circumstances must more water be added to the mix during application.

Application

Biocalce® Intonachino Colorato 0.5 and Biocalce® Intonachino Colorato 0.7 can be easily applied with a round-edged stainless steel spreader; be careful to evenly distribute the product. Apply in two or more coats; after each application, always finish with a sponge float in order to better even the applied coat.

The product must be applied with stainless steel spreaders or trowels and finished with plastic spreaders. Iron spreaders may release traces of metal; over time and in case of bad weather, they may show signs of oxidation on the façade, altering the aesthetic appearance of the decorated surfaces.

The applicable thickness per layer is:

- 5 mm for Biocalce® Intonachino 0.5
- 7 mm for Biocalce® Intonachino 0.7

Biocalce® Intonachino Colorato 1,2 can be applied with ease using a stainless steel spreader with rounded edges, taking care to distribute it evenly; apply in one or more coats, always finishing with a sponge float for optimum evening out of the layer applied. The applicable thickness per layer is:

- 1.2 mm Biocalce® Intonachino Colorato 1.2

When applying several layers it is recommended that you wait 24 hours between each application.

The product can be finished with a sponge float during the hardening phase.

Biocalce® Intonachino Colorato is pigmented exclusively with natural earths, so there may be slight differences in colour between one batch and the next and slight chromatic variations in the final result according to the level of absorption in the supports or variable atmospheric conditions during application.

Cleaning

Biocalce® Intonachino Colorato is a natural product and tools can be cleaned using water before the product hardens.

SPECIAL NOTES

Apply Biocalce Intonachino Colorato at temperatures from +8 °C to +30 °C and relative ambient humidity lower than 80%. In the event of strong wind, do not apply the product. When the product is applied externally the scaffolding must be protected with suitable cloths to protect it from direct sunlight, wind and rain, until the product has cured completely.

Clean and wash carefully the scaffolding boards, and eliminate any trace of surface dirt before applying the coloured covering. In case of wind or rain, dust, traces of ferrous metals or residues from the building site may be projected onto the still fresh decorated surface and stain it; stains can no longer be removed after the fine plaster has dried.

Carbonation is affected by weather conditions; at low temperatures and with high relative humidity it may be responsible for longer curing times. High environmental humidity, condensation and roughness of the support can favour the deposit of dust, spores and other sources of nourishment; they may generate the surface growth of micro-organisms and thus altering the aesthetic qualities of the finish. During the carbonation process, the resultant presence of active calcium hydroxide, following washouts by rainwater or contact with liquid water, can give rise to difficult-to-remove, unattractive stains or insoluble droplets.

Particular care must be taken when carrying out decorations over full backgrounds. Avoid interruptions between scaffolding levels or on large continuous surfaces.

When applying internally it is recommended that the rooms be well aired for a few days after application, to promote hardening of the binder by carbonation.

The product may show differences in shade on not suitably-prepared substrates.

ABSTRACT

*In Edilizia del Benessere® (Building for Wellness) and Historic Restoration highly hygroscopic and breathable decorative layers are created on internal and external plasters/renders using a wall finish coat containing naturally coloured pigments and pure lime putty (such as Biocalce® Intonachino Colorato 0.5-0.7-1.2), naturally ventilated to help dilute indoor pollutants, naturally bacteriostatic and fungistatic, GreenBuilding Rating® Bio 4**.*

Apply Biocalce® Intonachino Colorato with a stainless steel spreader, using the "high thickness application" method, after first damping the support. Apply one or more coats on substrates that have first been finished with products in the Biocalce® Intonachino finishing line.

Biocalce® Intonachino Colorato 0.5: grain size 0.5 mm, coverage ≈ 1.4 kg/m²

Biocalce® Intonachino Colorato 0.7: grain size 0.7 mm, coverage ≈ 1.7 kg/m²

Biocalce® Intonachino Colorato 1.2: grain size 1.2 mm, coverage ≈ 2.5 kg/m²

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

TECHNICAL DATA COMPLIANT WITH KERAKOLL QUALITY STANDARD

Type of mortar	lime putty, inert materials and natural minerals
Chemical nature of binder	CL 90-S calcium lime putty
Shelf life	≈ 12 months from production in the original sealed packaging
Warning	protect from frost, avoid direct exposure to sunlight and sources of heat
Pack	25 kg buckets
Temperature range for application	from +8 °C to +30 °C
Waiting time between 1 st and 2 nd coat	≈ 24 hrs
Maximum thickness obtainable:	
- Biocalce® Intonachino 0.5	0.5 mm
- Biocalce® Intonachino 0.7	0.7 mm
- Biocalce® Intonachino 1.2	1.2 mm
pH on packaging	13.5 ± 0.5
Viscosity	paste
Volumetric mass (specific weight) at +20 °C	≈ 1.65 kg/ℓ
Grading:	
- Biocalce® Intonachino 0.5	0.5 mm
- Biocalce® Intonachino 0.7	0.7 mm
- Biocalce® Intonachino 1.2	1.2 mm
Vapour permeability (Sd)	≤ 0.018
Cortical carbonation (days x mm thickness)	≈ 15
Coverage on finished substrate with Biocalce® Intonachino Fino:	
- Biocalce® Intonachino 0.5	1.4 kg/m ²
- Biocalce® Intonachino 0.7	1.7 kg/m ²
- Biocalce® Intonachino 1.2	2.5 kg/m ²

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

ACTIVE INDOOR AIR QUALITY (IAQ) - DILUTION OF INDOOR POLLUTANTS *

	Flow	Dilution	
Toluene	246 µg m ² /h	+157%	JRC method
Pinene	356 µg m ² /h	+114%	JRC method
Formaldehyde	14520 µg m ² /h	+120%	JRC method
Carbon dioxide (CO ₂)	388 mg m ² /h	+291%	JRC method
Humidity (Humid Air)	60 mg m ² /h	+255%	JRC method

BIOACTIVE INDOOR AIR QUALITY (IAQ) - BACTERIOSTATIC ACTION **

Enterococcus faecalis	Class B+ no proliferation	CSTB method
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BIOACTIVE INDOOR AIR QUALITY (IAQ) - FUNGISTATIC ACTION **

Penicillium brevicompactum	Class F+ no proliferation	CSTB method
Cladosporium sphaerospermum	Class F+ no proliferation	CSTB method
Aspergillus niger	Class F+ no proliferation	CSTB method

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 exterior paint (0.5 mm).

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

WARNING

- Product for professional use

- abide by any standards and national regulations
- always wet substrates before application
- do not add water during application
- float with a slightly damp, not wet, sponge
- screen/shield the scaffolds with appropriate in order protect from sun, wind and rain during the application and in the maturation phase
- 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

The Rating classifications refer to the GreenBuilding Rating® Manual 2013. This information was last updated in November 2020 (ref. GBR Data Report - 1220); please note that additions and/or amendments may be made over time by KERAKOLL SpA, for the latest version, see 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 yards 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.



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