

# Biocalce Spatolato

Eco-friendly, natural, certified, spreader/trowel applied plaster based on selected pure CL 90-S lime putty and containing natural coloured soils, compliant with EN 459-1 standard.

Biocalce Spatolato is suitable for highly breathable interior decorations of aesthetic quality.



## Rating 4

1. Allows walls to breath
2. With marbled plaster effect
3. Ideal for ensuring healthy interior living spaces for a greater psychophysical wellbeing
4. Suitable in Historical Restoration
5. Suitable to create “smooth plaster coats”
6. Bacteriostatic and fungistatic product (CSTB method)\*\*

- ✓ Pollution Reduced
- × VOC Low Emission
- ✓ Bacteriostatic
- ✓ Health Care
- ✓ Low Ecological Impact

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## Natural Ingredients

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Pure CL90 lime putty



Natural earth powder pigments and coloured minerals

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## Areas of application

### → Use

Biocalce Spatolato is particularly well suited to achieve decorations of high aesthetic quality in Building for Wellness in which the all-natural ingredients guarantee compliance with the required levels of natural beauty and breathability. Biocalce Spatolato is suitable for contemporary decoration and in Historical Restoration projects, where the choice of traditional materials such as natural lime, natural coloured earths and minerals, mixed in carefully-studied proportions, guarantees conservation interventions in full respect of the existing structures and original materials. Biocalce Spatolato can be used as an internal finishing product to create a “smooth plaster coat” and obtain even, flat surfaces that can either be left exposed or ready to be painted.

Biocalce Spatolato can be applied to:

- new plasters/renders made of lime putty, lime putty and natural hydraulic binder, hydraulic lime with low index of hydraulic properties, common lime and reactive cocciopesto (crushed brick), common lime-pozzolan and/or reactive pozzolans.
- well-preserved old plasters/renders
- well-preserved old marble-effect finishes (patch layers - restoration)
- cornices, pilasters and ornaments, as a finishing layer.
- traditional plasters, on gypsum, plasterboard or existing synthetic paints previously treated with Biocalce Fondo Universale.
- restoration plasters/renders

Do not use on dirty, non-cohesive, powdery substrates. On walls subject to rising damp without prior application of dehumidifying renders.

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## Instructions for use

→ The support 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.) and suitably finish with fine-or smooth texture. Treat surfaces in advance with Biocalce Fondo Universale 12 hours before applying Biocalce Spatolato. 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 product is ready-to-use.  
Mix before apply using a metal spreader and trowel.

### → Application

Biocalce Spatolato can be applied with ease using a stainless steel or soft PVC spreader, making sure that the product is distributed evenly; the second layer must be applied when the previous layer is completely dry, making sure the surface is smoothed so as to eliminate any ridges left from the first layer. Particular care must be taken with the last coat, for which the product must be applied in a criss-cross manner, smoothing Biocalce Spatolato to form a compact, smooth, translucent and vibrant surface typical of marble-effect finishes. The maximum applicable thickness per coat is approximately 0.5 mm.

### → Cleaning

Biocalce Spatolato is a natural product and tools can be cleaned with water before the product hardens.

## Special notes

- The colours shown in the sample charts are indicative and not binding. We therefore recommend testing the product onsite to check the exact colour and coverage that will be obtained.  
Subsequent supplies of product with the same colour code might show slight differences in shade. Always make sure you purchase a sufficient quantity to complete the work you are doing. When re-ordering the product, always indicate the batch code for the original supply.
- High environmental humidity, condensation and the roughness of the substrate may encourage deposits of dust, spores and other nutrient

- sources and generate surface growth of micro-organisms that might modify the aesthetics of the finish.
- The last coat must be applied using material from a single production batch.
- Evaluate seasonal application conditions (different temperature and moisture conditions result in significant differences in paint drying and/or reaction times).
- To increase the product's natural carbonation process, which determines its final hardening, it is recommended that the treated rooms be ventilated during the first 2 weeks of curing.

## 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 Historic Restoration highly hygroscopic and breathable decorative layers are created on internal plaster/render using natural plaster containing natural coloured earths and pure lime putty (such as Biocalce Spatolato), with spread stucco type surface finishing level, naturally ventilated to help dilute indoor pollutants, bacteriostatic and fungistatic, GreenBuilding Rating 4\*\*.*

*Apply Biocalce Spatolato in several coats using a stainless steel float, until the required aesthetic effect is achieved. Always prepare the substrates with Biocalce Fondo Universale.*

*Coverage Biocalce Spatolato:  $\approx 1.5 \text{ kg/m}^2$  per mm of thickness.*

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

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**Technical Data compliant with Kerakoll Quality Standard**

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Type of mortar	common lime, marble dust and natural coloured earth
Chemical nature of binder	common lime
Shelf life	≈ 12 months from production in the original sealed packaging
Warning	Protect from frost, avoid direct exposure to sunlight and sources of heat
Volumetric mass (specific weight) at +20 °C	≈ 1.55 kg/l
pH on packaging	≈ 12
Pack	5 – 25 kg buckets
Temperature range for application	from +8 °C to +30 °C
Maximum thickness obtainable	1.5 mm
Maximum thickness obtainable	0.5 mm per coat
Waiting time between subsequent coats	≥ 12 hrs
Coverage per m <sup>2</sup> (kg/m <sup>2</sup> at a thickness of 1 mm)	≈ 1.5 kg

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

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**Performance****Active INDOOR AIR QUALITY (IAQ) - Dilution of indoor pollutants \***

	Flow	Dilution	
Toluene	332 µg m <sup>2</sup> /h	+248%	JRC method
Pinene	228 µg m <sup>2</sup> /h	+37%	JRC method
Formaldehyde	2020 µg m <sup>2</sup> /h	test failed	JRC method
Carbon dioxide (CO <sub>2</sub> )	476 mg m <sup>2</sup> /h	+100%	JRC method
Humidity (Humid Air)	34 mg m <sup>2</sup> /h	+380%	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**

Vapour permeability (Sd)	≤ 0.05	
Cortical carbonation (days x 1 mm thickness)	≈ 30	
Permeability to water vapour	class V1 (high)	EN 7783-2
Respects the Kuenzle theory	$w < 0.5 \text{ kg} / \text{m}^2 \cdot \text{h}^{0.5} - \text{sD} < 2 \text{ m}$	DIN 18550

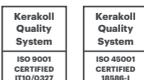
Values taken at +20 ± 2 °C, 65 ± 5% R.H. and no ventilation. Data may vary depending on specific conditions at the building site.

\* 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 apply Biocalce Fondo Universale before application of Biocalce Spatolato
- do not add water during application
- 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.