

# Biocalce Fondo Universale

Certified, eco-friendly, uniforming, universal mineral coat based on selected pure CL 90-S lime putty compliant with EN 459-1 standard and natural, micronized casein.

Biocalce Fondo Universale guarantees adhesion of lime-based decorative cycles to plaster surfaces or surfaces coated with synthetic paints, without altering its material appearance. Lime putty guarantees conservative interventions in full respect of the existing structures and original materials.



## Rating 3

1. Guarantees adhesion of lime-based decorations to gypsum, plasterboard and old paintwork in internal applications
2. Uniforms substrate absorption, thereby guaranteeing the even colour of the subsequent paint coat
3. Does not alter the finish of the surfaces
4. Porous and breathable allows walls to breath

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

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## Natural Ingredients



Pure CL90 lime putty



Pine oil



Pure fine white Carrara marble



Natural, micronized casein

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## Areas of application

### → Intended use:

In internal applications to improve adhesion of lime-based decorative cycles, without altering their material appearance on:

- gypsum surfaces
- plasterboard
- paintings with synthetic paints
- surfaces in the presence of patches or partial repairs using materials with uneven porosity and absorption.

In external applications to improve adhesion of lime-based decorative cycles, without altering their material appearance on:

- surfaces with patches or partial
- repairs carried out with materials with uneven surface pores and absorption.

The all-natural ingredients guarantee compliance with the required levels of breathability and permeability to water vapour.

Do not use in external applications before lime- or cement-based finishing products. In external applications on synthetic paints or silicate cycles. On walls subject to rising damp without prior application of dehumidifying renders.

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## Instructions for use

### → Preparation of substrates

The substrate must be clean with appropriate means to make it free from loose debris, dust and mould. New plaster/render patch layers must be left to cure. On surfaces coated with paint or partially deteriorated decorative coatings, remove all loose debris and particles unbonded to the substrate.

The substrate must be dry at the time of application.

On external surfaces carefully remove existing synthetic paints.

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

Mix carefully before use. Use the product diluted up to 20% by volume with clean water, according on the porosity and absorption of support.

### → Application

Apply one or more coats with a brush and/or wool roller, according to the type of the facades and support.

Overlay the lime-based cycle after 12 hours.

Apply Biocalce Fondo universale at temperatures from +8 °C to +30 °C and relative ambient humidity lower than 80%. Protect from frost.

### → Cleaning

Biocalce Fondo Universale is a natural product and tools can be cleaned using water before the product hardens.

## Special notes

→ Subsequent decoration must only be carried out after complete hardening of Biocalce Fondo Universale and in any case not less than 12 hours after application has been completed.

→ When applying, check the full coverage of the underlying masonry.  
In presence of clear residue, a second coat is recommended.

## 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

*Biocalce Fondo Universale is a uniforming coat based on CL 90-S lime putty and natural micronized casein, pine oil and carbonate fillers, specific for the adhesion of lime-based decorative cycles to plaster-based substrates or surfaces coated with synthetic paints, without altering their material appearance. Provides natural ventilation to improve indoor air quality, bacteriostatic and fungistatic effect, GreenBuilding Rating 3\*\*. Biocalce Fondo Universale can be diluted up to 20% by volume with clean water, according to the porosity and absorption level of the support.*

*Also specific for uneven substrates in Edilizia del Benessere (Building for Wellness) and in Historical Restoration of the Environmental and Architectural Heritage.*

*Coverage: Biocalce Fondo Universale 0.25 l/m<sup>2</sup>.*

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

### Technical Data compliant with Kerakoll Quality Standard

Appearance	White liquid
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	buckets 14 l – 4 l
Temperature range for application	from +8 °C to +30 °C
pH on packaging	≈ 11.5
R.H. limit value	< 80%
Volumetric mass (specific weight)	≈ 1,5 kg/l
Dry 105	≈ 63%
Complete drying at +23 °C and 80% R.H.	72 hrs
Coverage	≈ 0.15 – 0.25 l/m <sup>2</sup>

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

<b>Performance</b>			
Permeability to water vapour	class V1 (high)	EN 1062-1	
Equivalent air layer (for 2 coats)	SD ≤ 0.14 m	EN ISO 7783-2	
<b>Active INDOOR AIR QUALITY (IAQ) - Dilution of indoor pollutants *</b>			
		Flow	Dilution
Toluene	297 µg m <sup>2</sup> /h	+36%	JRC method
Pinene	348 µg m <sup>2</sup> /h	+34%	JRC method
Formaldehyde	6390 µg m <sup>2</sup> /h	+42%	JRC method
Carbon dioxide (CO <sub>2</sub> )	380 mg m <sup>2</sup> /h	+4%	JRC method
Humidity (Humid Air)	70 mg m <sup>2</sup> /h	+1%	JRC method

\*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 interior paint (0.2 mm).

## Warning

- Product for professional use
- abide by any standards and national regulations
- use at temperatures between +5 °C and +30 °C and humidity lower than 80%
- do not apply to dirty, loose and flaking surfaces
- 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 – 07.23); 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.