

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, ideal for use in GreenBuilding and Historical Restoration. Contains raw materials of only natural origin. Safeguards the health of both operators and the environment.

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.



GREENBUILDING RATING®

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

Highly effective (5/5)

Non-toxic and non-hazardous

No environmental hazard rating

PRODUCT STRENGTHS

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

NATURAL INGREDIENTS

	Pure CL90 lime putty		Pure fine white Carrara marble
	Pine oil		Natural, micronized casein

AREAS OF USE

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 with patches or partial
 - repairs carried out with materials with uneven surface pores 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 capillary moisture rising without prior application of dehumidifying plasters/renders.

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.

* 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).

INSTRUCTIONS FOR USE

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.

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, natural 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/m².

*** 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	≈ 12
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 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

Permeability to water vapour	class V1 (high)	EN 1062-1
Equivalent air layer (for 2 coats)	$S_D \leq 0.14$ m	EN ISO 7783-2

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

	Flow	Dilution	
Toluene	297 $\mu\text{g m}^2/\text{h}$	+36%	JRC method
Pinene	348 $\mu\text{g m}^2/\text{h}$	+34%	JRC method
Formaldehyde	6390 $\mu\text{g m}^2/\text{h}$	+42%	JRC method
Carbon dioxide (CO ₂)	380 $\text{mg m}^2/\text{h}$	+4%	JRC method
Humidity (Humid Air)	70 $\text{mg m}^2/\text{h}$	+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

The Rating classifications refer to the GreenBuilding Rating® Manual 2013. This information was last updated in November 2020 (ref. GBR Data Report - 12.20); 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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