

Biocalce Silicato Fondo Fino

Certified, eco-friendly, natural uniforming intermediate coat based on pure stabilized potassium silicate.

Biocalce Silicato Fondo Fino is specifically intended for evening out the absorption of mineral substrates, without altering surface solidity and compactness before subsequent decorative silicate cycles. Naturally protected with pine oil in accordance with DIN 18363.



Rating 4

1. Naturally breathable, allows walls to breath
2. Uniforms substrate absorption, thereby guaranteeing the even colour of the subsequent paint coat
3. Does not alter the finish of the surfaces
4. Bacteriostatic and fungistatic product (CSTB method)*

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

Natural Ingredients



Pure potassium silicate



Pure fine white Carrara marble



Pine oil

With less than 5% added organic emulsion, as required under DIN 18363

Areas of application

→ Use

Biocalce Silicato Fondo Fino is suitable for evening out absorption, without altering the surface solidity of healthy, compact new cured plasters and renders. Suitable for surfaces that have been partially repaired or patched using different levels of porosity and absorption materials. To ensure a uniform curing and even colour of the subsequent decorative silicate cycles.

Biocalce Silicato Fondo Fino 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 and permeability to water

vapour, guaranteeing effective protection from atmospheric and environmental agents at the same time.

Biocalce Silicato Fondo Fino is suitable for decoration in Historical Restoration projects, where the choice of traditional materials such as pure potassium silicate 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 or powdery. On old paints or lime putty coverings, on gypsum substrates. On walls subject to rising damp without prior application of dehumidifying renders.

Instructions for use

→ Preparation of substrates

The support must be treated in advance with Biocalce Silicato Consolidante.

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.

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.

depending on porosity and degree of absorption of the substrate. For internal surfaces Biocalce Silicato Fondo Fino can be diluted with clean water to a maximum of 25% by volume.

For external surfaces: dilute Biocalce Silicato Fondo with 10 – 15% Biocalce Silicato Consolidante and add 10 – 15% water depending on the degree of absorption of the substrate and the tools used.

→ Application

Apply one or more coats with a brush and/or wool roller, according to the type of the facades and support. Overlay the silicate-based cycle after 12 hours.

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

→ Preparation

Mix carefully before use. Use the product undiluted or diluted with Biocalce Silicato Consolidante to a maximum of 25% in volume,

→ Cleaning

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

Special notes

The subsequent paint layer should be applied when Biocalce Silicato Fondo Fino has hardened completely, and in any case not less than 12 hours after completion of the preceding layer. When applying, check the full coverage of the underlying masonry. In presence of clear residue, a second coat is recommended.

Given the purity of the Biocalce Silicato Fondo Fino formula and its high alkalinity, adjacent surfaces must be protected during application. Contact with silicate products can damage urban furniture and glass, ceramic, natural stone, terracotta and metals. Any splashes of product must be removed immediately with clean water.

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 Silicato Fondo Fino is a uniforming intermediate coat based on pure, stabilised potassium silicate and pine oil, compliant with DIN 18363, specifically designed to even up the surface solidity of substrates prior to overlaying with decorative silicate cycles. Biocalce Silicato Fondo Fino can be diluted with Biocalce Silicato Consolidante to a maximum of 25% by volume, depending on the porosity and degree of absorption of the support.

*Provides natural ventilation to improve indoor air quality, bacteriostatic and fungistatic, GreenBuilding Rating 4. Specifically intended for uneven or micro-cracked substrates in Edilizia del Benessere (Building for Wellness) and Historical Restoration and conservation of Italian superintendence for environmental and architectural heritage listed buildings**.*

Biocalce Silicato Fondo Fino: 0.1 – 0.2 l/m² per single coat.

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

Technical Data compliant with Kerakoll Quality Standard

Appearance	White liquid
Shelf life	≈ 6 months from production in the original sealed packaging
Warning	protect from frost, avoid direct exposure to sunlight and sources of heat
Pack	4 / 14 l buckets
Temperature range for application	from +8 °C to +30 °C
pH on packaging	≈ 11
R.H. limit value	≤ 80%
Volumetric mass (specific weight)	≈ 1.45 kg/l
Dry 105	≈ 63%
Complete drying at +23 °C and 80% R.H.	72 hrs
Coverage	≈ 0.1 – 0.2 l/m ² per single coat

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	174 µg m ² /h	+82%	JRC method
Pinene	189 µg m ² /h	+14%	JRC method
Formaldehyde	6099 µg m ² /h	test failed	JRC method
Carbon dioxide (CO ₂)	324 mg m ² /h	+226%	JRC method
Humidity (Humid Air)	54 mg m ² /h	+217%	JRC method

Bioactive INDOOR AIR QUALITY (IAQ) - Bacteriostatic action **

<i>Enterococcus faecalis</i>	Class B+ no proliferation	CSTB method
------------------------------	---------------------------	-------------

Bioactive INDOOR AIR QUALITY (IAQ) - Fungistatic action **

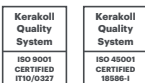
<i>Penicillium brevicompactum</i>	Class F+ no proliferation	CSTB method
<i>Cladosporium sphaerospermum</i>	Class F+ no proliferation	CSTB method
<i>Aspergillus niger</i>	Class F+ no proliferation	CSTB method

* 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
- use at temperatures between +8 °C and +30 °C
- make sure the substrate is not frozen
- do not apply in the event of strong wind, strong sunlight, rain or if there is a risk of frost in the following 24 hours
- protect from direct rainfall until silication is complete (72 hours without rain at a constant temperature of +23 °C and less than 80% humidity)
- do not apply on dirty or loose 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 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. 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.