

# Biocalce Silicato Consolidante

Natural, eco-friendly, breathable, stabilizing cortical consolidant based on pure stabilized potassium silicate, solvent-free.

Biocalce Silicato Consolidante is specifically intended for consolidating and evening out absorption of mineral substrates before applying decorative silicate cycles; also suitable for consolidating plasters and renders that are anchored to the underlying masonry, not covered with synthetic finishings. Naturally protected with pine oil in accordance with DIN 18363.



## Rating 4

1. Naturally breathable, allows walls to breath
2. Acts to promote silication
3. Does not alter the finish of the surfaces
4. Suitable for diluting Biocalce Silicato Puro Pittura
5. High smoothness, easy-to-apply

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

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## Natural Ingredients

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Pure potassium silicate



Pine oil

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## Areas of application

### → Use

Biocalce Silicato Consolidante is suitable to consolidate cured new lime or hydraulic cement-lime based plasters/renders, and old plasters/renders that are well anchored to the masonry substrate, not coated with synthetic finishes. Biocalce Silicato Consolidante is suitable for diluting Biocalce Silicato Puro Pittura.

Biocalce Silicato Consolidante 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. Biocalce Silicato Consolidante 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 synthetic paints and plastic coverings. On gypsum-based surfaces and plasters. 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.

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.

### → Application

**Consolidation:** apply one or more coats using a brush, taking care to apply the consolidating agent in an irregular, criss-cross manner and avoiding drips. Apply a second coat after 12 hours.

**Dilution:** Biocalce Silicato Consolidante can be diluted to a maximum of 50% by volume, depending on the porosity of the substrate. Apply Biocalce Silicato Consolidante at temperatures from +8 °C to +30 °C and relative humidity lower than 80%. Protect from frost.

### → Cleaning

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

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## Special notes

- When Biocalce Silicato Consolidante fully hardens, apply the subsequent paint layer; but no later than 12 hours after the last finished application.
- Given the purity of the Biocalce Silicato Consolidante 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 Consolidante is a cortical silication promoting consolidant based on pure, stabilised potassium silicate and pine oil, compliant with DIN 18363, with a high penetration capacity to consolidate the substrates prior to application of silicate-based decorative cycles. Provides natural ventilation to improve indoor air quality, bacteriostatic and fungistatic effect, GreenBuilding Rating 3\*\*. Specifically intended for mineral substrates in Edilizia del Benessere (Building for Wellness) and Historical Restoration of Environmental and Architectural Heritage buildings. Coverage Biocalce Silicato Consolidante:  $\approx 0.2 \text{ l/m}^2$  per single coat.*

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

### Technical Data compliant with Kerakoll Quality Standard

Appearance	neutral liquid
Shelf life	$\approx 6$ months from production in the original sealed packaging
Warning	Protect from frost, avoid direct exposure to sunlight and sources of heat
Pack	5 – 10 l cans
Temperature range for application	from +8 °C to +30 °C
pH on packaging	$\approx 11$
R.H. limit value	$\leq 80\%$
Volumetric mass (specific weight)	$\approx 1,1 \text{ kg/l}$
Dry 105	$\approx 10\%$
Complete drying at +23 °C and 80% R.H.	72 hrs
Coverage	$\approx 0.2 \text{ l/m}^2$ for each coat

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

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**Performance**


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


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	Flow	Dilution	
Toluene	247 µg m <sup>2</sup> /h	+65%	JRC method
Pinene	297 µg m <sup>2</sup> /h	+107%	JRC method
Formaldehyde	4785 µg m <sup>2</sup> /h	+53%	JRC method
Carbon dioxide (CO <sub>2</sub> )	305 mg m <sup>2</sup> /h	+335%	JRC method
Humidity (Humid Air)	42 mg m <sup>2</sup> /h	+95%	JRC 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 cement-based plaster/render (1.5 cm).

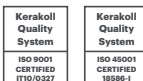
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## Warning

- 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](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.