

# Biocalce Tinteggio

Certified, eco-friendly, natural wall paint based on selected pure CL 90-S lime putty compliant with EN 459-1 and naturally coloured pigments.

Biocalce Tinteggio, natural lime paint, is especially recommended for the decoration of conventional and restoration render coats to achieve high-end decorative finishes.



## Rating 4

1. Allows walls to breath
2. Ideal for ensuring healthy interior living spaces for a greater psychophysical wellbeing
3. Bacteriostatic and fungistatic classified B+ e F+ (CSTB method)\*
4. Outdoors, it gives new facades a traditional, aged look

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

## Natural Ingredients



Pure CL90 lime putty



Pine oil



Natural earth powder pigments and coloured minerals

## Areas of application

### → Use

Natural lime putty for the decoration of conventional and restoration plaster/render coats. Biocalce Tinteggio 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.

Biocalce Tinteggio is suitable for decoration 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.

Do not use on wet substrates (not cured); on substrates which are dirty, non-cohesive, powdery. On previous paint coats or lime putty coverings. On walls subject to rising damp without prior application of dehumidifying renders.

## Instructions for use

### → Preparation of substrates

The substrate must be cured, clean and solid, free from loose debris, dust and mould. Old plaster must adhere to the masonry structure and must be damage-free, dry, carefully cleaned to remove remaining traces of previous processes (lime putty coverings, old finishing coats, etc.) and suitably finished using products from the Biocalce finishing line according to the level of finish and smoothness of the plaster.

Preparation of new or old substrates using products in the Biocalce finishing line helps save time and colour product, guaranteeing a superior quality decorative layer.

### → Treat surfaces in advance with Biocalce Fondo or Biocalce Fondo Universale according to the support finish level 24 hours before applying Biocalce Tinteggio. Particular care must be taken during summer and when working in direct sunlight: provide shade cloths.

In the presence of partial repairs or plasters/renders with a different degree of absorption, apply several coats of Biocalce Fondo or Biocalce Fondo Universale until the support is even. Apply Biocalce Fondo Universale before applying Biocalce Tinteggio to indoor surfaces coated with gypsum, plasterboard or synthetic paints. In the case of plastered surfaces that have

been repaired or patched, these must be allowed to cure for at least 30 days.

To even up the absorption in old or inconsistent substrates use one or more coats of Biocalce Fondo according to the absorption found. 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

Biocalce Tinteggio can be applied both externally and internally in several coats according to the level of coverage and chromatic effect required.

Dilute the first coat of Biocalce Tinteggio with clean water to a maximum ratio of 40% by volume. The second coat must be diluted to a maximum of 20%; this all depends on the porosity of the support and the level of preparation.

Under no circumstances must more water be added to the mix during application.

Always use the same dilution ration in subsequent mixes.

### → Application

Biocalce Tinteggio can be applied with ease

## Instructions for use

using a brush alone, taking care to apply the colour using crossed, irregular strokes.  
The base must always be treated in advance with Biocalce Fondo or Biocalce Fondo Universale in order to allow proper curing of the lime and fixing of the coloured earths.  
Biocalce Tinteggio is pigmented exclusively with natural earths, so there may be slight differences in colour between one batch and the

next and slight chromatic variations in the final result according to the level of absorption in the supports or variable atmospheric conditions during application

- **Cleaning**  
Biocalce Tinteggio is a natural product and tools can be cleaned using water before the product hardens.

## Special notes

- Apply Biocalce Tinteggio at temperatures from +8 °C to +30 °C and relative ambient humidity lower than 80%. In the event of strong wind, do not apply the product.
- When the product is applied externally the scaffolding must be protected with suitable sheets to protect it from direct sunlight, wind and rain during the first 15 days.  
Rain may result in carbonation and/or surface percolation, coating the original colour with a veil of white.
- Particular care must be taken when carrying out decorations over full backgrounds. Avoid interruptions between scaffolding levels or on large continuous surfaces. On intense shades, it is recommended to apply the product without interruption, wet on wet, in order to avoid signs of recoating.  
Touch-ups may vary depending on various factors and may be visible even after the product has dried.
- On dark colours a blackboard effect may be visible when fingers are rubbed on the wall after the product has dried completely.
- High environmental humidity, condensation and roughness of the support can favour the deposit of dust, spores and other sources of nourishment; they may generate the surface growth of micro-organisms.
- When applying internally it is recommended that the rooms be well aired for a few days after application, to promote hardening of the binder by carbonation.
- The product may show differences in shade on not suitably-prepared substrates.
- Unprotected masonry: surfaces exposed to the direct action of rain must be protected against direct percolation of rainwater, at least until the decorative coating is completely cured, in order to prevent dripping or surface crystallization.
- Any whitening or differences in colour due to water percolation on the walls are not attributable to a manufacturing defect but to the mineral nature and natural characteristics of the product.

## 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 and external plaster using natural coloured earths and pure lime putty (such as Biocalce Tinteggio), naturally ventilated to help dilute indoor pollutants, bacteriostatic and fungistatic, GreenBuilding Rating 4\*. Apply Biocalce Tinteggio using brushes alone, after first treating the support with Biocalce Fondo or Biocalce Fondo Universale, making sure the product is carefully and evenly distributed. Apply the product in a minimum of two times or more depending on the level of coverage you want, on previously shaved funds with products from the finish line Biocalce Intonachino.*

*Coverage Biocalce Tinteggio:  $\approx 0.3 \text{ l/m}^2$  for two coats.*

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

## Technical Data compliant with Kerakoll Quality Standard

Appearance	Natural lime putty
Chemical nature of binder	CL 90-S calcium lime putty
Shelf life	$\approx 12$ 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
Waiting time between 1st and 2nd coat	$\approx 12$ hrs
Rain interval at +20 °C and R.H. $\leq 80\%$	at least 72 hrs
Dry to touch at +20 °C	$\approx 4$ hrs
pH on packaging	$13,5 \pm 0,5$
Brookfield viscosity RVT6 RPM10	$33.000 \text{ cp} \pm 500 \text{ cp}$
Volumetric mass (specific weight) at +20 °C	$\approx 1,33 \text{ kg/l}$
Coverage per $\text{m}^2$ on support finished with Biocalce Intonachino Fino	$\approx 0.2 - 0.3 \text{ l/m}^2$ for two coats

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.

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

	Flow	Dilution	
Toluene	278 µg m <sup>2</sup> /h	+27%	JRC method
Pinene	383 µg m <sup>2</sup> /h	+48%	JRC method
Formaldehyde	6244 µg m <sup>2</sup> /h	+38%	JRC method
Carbon dioxide (CO <sub>2</sub> )	584 mg m <sup>2</sup> /h	+62%	JRC method
Humidity (Humid Air)	71 mg m <sup>2</sup> /h	+3%	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**

Water vapour permeability coefficient (µ)	µ = 10	DIN 52615
Equivalent air layer (for 2 coats)	s <sub>D</sub> = 0,0006 m	EN ISO 7783-2

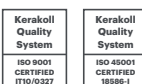
Values taken at +20 ± 2 °C, 65 ± 5% R.H. and no ventilation. Data may vary depending on specific conditions at the building site.

\*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).

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

## Warning

- Product for professional use
- abide by any standards and national regulations
- do not add water during application
- scaffolding must be screened with suitable sheets to protect from sun, wind and rain during application and during the curing phase (15 days)
- applying at temperatures below +8 °C with high atmospheric humidity, or failing to protect from rain in the first 15 days may result in carbonation and/or surface percolation which creates a white film over the original colour
- we recommend removing the material in a single action
- on large surface areas, gaps must be left around joints, drain pipes, corners and edging, or insert technical joints
- 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.