

Kerakover Silox Finish



Eco-friendly, organic, mineral covering, completely coloured, based on water-based siloxane resins, ideal for use in GreenBuilding. With reduced solvent content, safeguards the health of both operators and the environment.

Kerakover Silox Finish creates high-thickness, highly breathable and highly protective decorative coverings that are resistant to algae and atmospheric agents. Excellent workability, high aesthetic quality and compact effect. Internal, external.



GREENBUILDING RATING®

Kerakover Silox Finish
 - Category: Organic Mineral products
 - Protection and decoration

Rating based on average colour formulations

rating 4

- Natural mineral content 74%
- Reduced solvent content
- No environmental hazard rating
- Non-toxic and non-hazardous

RATING SYSTEM ACCREDITED BY CERTIFICATION BODY SGS

PRODUCT STRENGTHS

- Compact effect
- Highly protective against atmospheric agents
- Resistant to attack from mould, algae and fungi
- Excellent spreadability and slide
- Excellent elasticity
- Fine, superior quality finish
- Suitable for breathable insulation systems
- Available in 4 grain sizes (0.7 mm – 1.0 mm – 1.2 mm – 1.5 mm)

ECO NOTES

- Formulated with locally-sourced minerals meaning lower greenhouse gas emission during transportation
- Improved on-site safety guaranteed

AREAS OF USE

Use
 Protective and waterproofing decoration of:

- dehumidifying renders
- new cured renders
- old renders that are well anchored to the masonry substrate
- compact surface concrete structures
- surfaces with synthetic or mineral finishes, all in good condition
- thermal insulation panelling system

For internal and external use.

Cool Colors Solar-Scud
 Kerakover Silox Finish can be painted in the 69 colour shades of the Cool Colors Solar-Scud chart. Colours are formulated using special heat-reflecting pigments; they reflect much of the incoming solar radiation, thus remaining cooler and contributing to solve problems related to overheating of opaque vertical walls despite their intense colouring.

The Cool Colors Solar-Scud range of finishes is the intelligent way of decorating the outer surfaces of buildings, making them highly reflective without foregoing strong colours; they have been designed for every type of intervention on:

- ETICS thermal insulation panelling systems compliant with the Italian Technical Report UNI/TR 11715
- decoration of façades without thermal insulation panelling systems
- repair of old façades
- maintenance of old thermal insulation panelling systems

Do not use
 For the containment or continuous contact with water. On walls subject to rising damp without prior application of dehumidifying renders.

* 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

The instructions for use for applications in heat-insulating systems refer, where required, to the Italian Technical Report UNI / TR 11715 "Heat-insulating products for buildings - Design and installation of external heat-insulating systems (ETICS)".

Preparation of substrates

Surfaces to be decorated must be dry, well cured, not crazed and perfectly clean; all weakened parts, any layers of old paint which have begun to peel, dust and traces of parting compound must be removed. If necessary, apply the Kerakover Eco Silox Primer water-based primer on the surface to consolidate, even out absorption, and improve the adhesion of the next decorative cycle.

In KlimaExpert heat-insulating panelling systems, use Kerakover Eco Silox Fondo for grain size 1.0, 1.2 and 1.5. Kerakover Eco Silox Primer and Kerakover Eco Silox Fondo base coat may be coloured by adding up to 20% of Kerakover Eco Silox Pittura to obtain a coloured base before application of Kerakover Silox Finish fine plasters.

In the presence of old supports with limited cohesion, in which high levels of consolidation are required, apply one or two coats of Kerakover Acrilex Consolidante solvent-based stabilizing agent.

In the presence of deposits of mould or biodeteriorating agents, repair first with Kerakover Activ.

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

Kerakover Silox Finish is ready-to-use. Always remix the product before application. If necessary, it can be diluted using water.

Application

Kerakover Silox Finish must be applied using a steel spreader in one or more coats on supports that are completely dry or with a residual humidity of not more than 6%, and must be finished using a plastic spreader.

The product must be applied with a stainless-steel spreader or trowel and finished with a plastic spreader. Iron spreaders may release traces of metal; over time and in case of bad weather, they may show signs of oxidation on the façade, altering the aesthetic appearance of the decorated surfaces.

Conditions required for decorating are ambient and substrate temperatures between +5 °C and +30 °C and a relative ambient humidity lower than 80%.

Leave at least 12 hours between the first and second coats.

Do not apply when the substrate is directly exposed to sunlight. After application, outdoor surfaces must be protected against rain and humidity until the film has dried completely, which normally occurs after approximately 48 hours.

In cases where different lots of coloured product are used, or when completing a job in which a tintometer has been used, it is advisable to mix the various quantities together so as to avoid slight differences in tone. Always restart application from a corner.

Cleaning

Residual traces of Kerakover Silox Finish can be removed from tools using water before the product hardens.

SPECIAL NOTES

The colours shown in the sample charts are indicative and not binding. We therefore recommend testing the product onsite to check the exact colour and coverage that will be obtained.

Surfaces affected by rising damp must be treated first with a dehumidifying cycle.

Eliminate any type of water infiltration taking care to treat well in advance all the substrates concerned.

Clean and wash carefully the scaffolding boards, and eliminate any trace of surface dirt before applying the coloured covering. In case of wind or rain, dust, traces of ferrous metals or residues from the building site may be projected onto the still fresh decorated surface and stain it; stains can no longer be removed after the fine plaster has dried.

Arrange for appropriate protective coverings for scaffolding and always protect surfaces where the paint product will not be applied. High environmental humidity, condensation and the roughness of the substrate may encourage deposits of dust, spores and other nutrient sources and generate surface growth of micro-organisms that might modify the aesthetics of the finish.

For bright or intense shades, always evaluate their sensitivity to ultraviolet light, as indicated in the reference colour chart and in our GreenDesign software. This information is also provided in the documentation enclosed with the product samples, or in the documentation produced by the colour measurement department when sending the formulations requested.

Evaluate seasonal application conditions (different temperature and moisture conditions result in significant differences in paint drying and/or reaction times).

When applying the paint product to large surfaces, the application must stop in the vicinity of joints or guttering.

Subsequent supplies of product with the same colour code might show slight differences in shade. Always make sure you purchase a sufficient quantity to complete the work you are doing. When re-ordering the product, always indicate the batch code for the original supply.

Colours made with the special Cool Colors Solar-Scud pigments are available exclusively from the Kerakoll production site and can be ordered using the codes shown in the "Heat-reflecting finishes for external use" colour chart, referring to the dedicated price range.

ABSTRACT

Grain size 0.7 mm:

Protection and decoration of internal and external surfaces involving application using a steel float and finishing using a plastic float of a compact effect, high coverage, mineral base using water-based, siloxane resins, providing high breathability and protection from atmospheric agents, pollution, bacteria, fungi and algae, such as Kerakover Silox Finish 0.7 mm by Kerakoll Spa, compliant with the performance requirements of Standard CE EN 15824, GreenBuilding Rating® 4. Permeability to water vapour class V1 (high) under EN ISO 7783-2, permeability to liquid water class W3 (low) under EN 1062-3, adhesion ≥ 0.3 MPa under EN 1542, thermal conductivity (λ) 0.83 W/(m K) under EN 1745:2002. Painted in the 69 colour shades of the Cool Colors Solar-Scud chart, Kerakover Silox Finish is formulated using special heat-reflecting pigments; they reflect much of the incoming solar radiation, thus remaining cooler and contributing to solve problems related to overheating of opaque vertical walls despite their intense colouring.

Grain sizes 1.0 – 1.2 – 1.5 mm:

Protection and decoration of internal and external surfaces and of panelling systems, involving application using a steel float and finishing using a plastic float of a high coverage, highly breathable, compact effect mineral base using water-based, siloxane resins providing protection from atmospheric agents, pollution, bacteria, fungi and algae, such as Kerakover Silox Finish (1.0 mm – 1.2 mm – 1.5 mm) by Kerakoll Spa, compliant with the performance requirements of Standard EN 15824, GreenBuilding Rating® 4. Permeability to water vapour class V1 (high) under EN ISO 7783-2, permeability to liquid water class W3 (low) under EN 1062-3, adhesion ≥ 0.3 MPa under EN 1542, thermal conductivity (λ) 0.83 W/(m K) under EN 1745:2002. Painted in the 69 colour shades of the Cool Colors Solar-Scud chart, Kerakover Silox Finish is formulated using special heat-reflecting pigments; they reflect much of the incoming solar radiation, thus remaining cooler and contributing to solve problems related to overheating of opaque vertical walls despite their intense colouring.

TECHNICAL DATA COMPLIANT WITH KERAKOLL QUALITY STANDARD

Appearance	white or coloured paste
Volumetric mass	≈ 1.85 kg/ℓ
Chemical nature	acrylic-siloxane emulsion
Shelf life	≈ 18 months from production in the original sealed packaging
Warning	protect from frost, avoid direct exposure to sunlight and sources of heat
Pack	25 kg buckets
Temperature range for application	from +5 °C to +30 °C
Humidity of the substrate	$\leq 6\%$
Waiting time between subsequent coats	≥ 12 hrs
Maximum thickness per layer:	
- grain size 0.7 mm	≈ 0.7 mm
- grain size 1.0 mm	≈ 1.0 mm
- grain size 1.2 mm	≈ 1.2 mm
- grain size 1.5 mm	≈ 1.5 mm
Coverage per single coat:	
- grain size 0.7 mm	≈ 1.5 kg/m ²
- grain size 1.0 mm	≈ 1.8 kg/m ²
- grain size 1.2 mm	≈ 2.1 kg/m ²
- grain size 1.5 mm	≈ 2.4 kg/m ²

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

PERFORMANCE

HIGH-TECH

Permeability to water vapour	class V1 (high)	EN 7783-2
Permeability to water in liquid form	class W3 (low)	EN 1062-3
Respects the Kuenzle theory	$w < 0.5$ kg /m ² ·h ^{0.5} – S _D < 2 m	DIN 18550
Adhesion	≥ 0.3 MPa	EN 1542
Thermal conductivity (λ)	1.21 W/(m K)	EN 1745:2002
Reaction to fire	Class A2-s1, d0	EN 13501-1
Cool Colors Solar-Scud (KIR01- KIR69)	SRI ≥ 20	

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

WARNING

- Product for professional use

- abide by any standards and national regulations
- for the protection of KlimaExpert insulating panelling systems, do not use Kerakover Silox Finish 0.7
- use at temperatures between +5 °C and +30 °C
- make sure the substrate is not frozen
- protect surfaces from direct sunlight and wind
- do not use additives
- protect all painted surfaces from rain and high moisture during the first 48 hours following application
- 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 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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