

Silox Finish

Siloxane, fibre-reinforced, coloured covering for facades and for ETICS. Breathable and water-repellent.

Suitable for dehumidifying systems. Thanks to its refined, compact aesthetic effect, it is ideal for the decoration and protection of external walls. Silox Finish has microporosity that provides high breathability while maintaining water-repellence. Its fibres make it flexible and guarantee high performance levels; it is ideal for the protection of mineral external insulation panelling systems and dehumidifying cycles. It guarantees as well excellent resistance to atmospheric agents. Available in 1,000 Kerakoll Colors shades.



1. High breathability and water-repellence
2. Suitable for dehumidifying cycles
3. Resistant to mould According to UNI EN 15457
4. Resistant to algae according to standard UNI EN 15458
5. Self-cleaning, low dirt collection
6. Available in 3 grain sizes: 1 mm (S-1.0) – 1.2 mm (M-1.2) – 1.5 mm (M-1.5)
7. Product in the Klimaexpert ETA MW system
8. Suitable for Klimaexpert Fire Protection kits
9. Suitable for Klimaexpert High Performance MW systems

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Areas of application

→ Use

Protective decoration on:

- Cement-, gypsum- or lime-based traditional and ready-mixed finishing products
- plasterboard
- prefabricated cement elements
- Timber
- dehumidifying renders
- Klimaexpert ETA MW with European Technical Assessment (ETA) according to EAD 040083-00-0404
- Klimaexpert Fire Protection Kit
- Klimaexpert High Performance MW with resistance to hail (HIR4) and resistance to shocks (60 Joule)

Suitable for internal and external use.

Do not use on walls subject to moisture rising without applying first dehumidifying renders; on substrates which are dirty, non-cohesive, powdery.

Cool Colors Solar-Scud

Silox Finish may be dyed with a tinting machine in the 69 Cool Colors Solar-Scud shades.

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
- decorating facades without ETICS systems
- repair of old facades
- maintenance of old thermal insulation panelling systems.

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

Clean the various types of substrate carefully using suitable equipment to remove all traces of dirt, dust or efflorescence.

If necessary, apply the water-based primer Universal Wall Primer on the substrate to consolidate, even out absorption, and improve the adhesion of the next decorative cycle.

In Klimaexpert external insulation panelling systems, use Universal Wall Grip for grain size 1.0, 1.2 and 1.5. Universal Wall Grip may be dyed with a tinting machine in the same colour selected for Silox Finish.

If an additional consolidating effect is required, apply one or more coats of Exence Reinforcer S solvent-based stabilizing agent. In this case samples should be done in advance to verify the level of consolidation and absorption achieved. Newly laid renders must be perfectly cured. New render patch layers must be left to cure, i.e. until the bonding agent has set. Remove all sections

of partially deteriorated synthetic or mineral-based paint coatings and coverings that are fragmenting or separating from the substrate. In the presence of deposits of mould or biodeteriorating agents, repair first with the Skil Remove product. 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

Silox Finish is ready to use. Always mix the product again before application, using a low-speed helical mixer. If the product is particularly tacky it is possible to add up to a maximum of 2% by weight of water to achieve optimum viscosity.

→ Application

Silox Finish must be applied on well-dried substrates or with moisture content not exceeding 6%.

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

Instructions for use

the facade, altering the aesthetic appearance of the decorated surfaces. It is recommended to check that the tools are in good condition before starting work.

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

The product must be applied after the render has been cured for approximately 4 - 5 weeks. If application in several layers is necessary, wait for a minimum of 12 hours between subsequent layers, or make sure that the film has dried completely.

Do not apply when the substrate is directly exposed to sunlight.

After application, external surfaces must be protected from rain and moisture for 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.

For applications in heat-insulating systems, where applicable, the indications given refer to UNI / TR 11715 - paragraph 9.

Available in 1,000 Kerakoll Colors shades, identifiable by the symbol on the colour palette ↗ on the colour palette.

→ Cleaning

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

Special notes

- The photographic images in the catalogue and on the website, as well as the colours shown in the samples are to be considered purely indicative. It is therefore recommended to carry out a preliminary test on site applying the Color Sample Finish product in order to check the exact colour tone and actual coverage.
- 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.
- When applying the paint product to large surfaces, the application must stop in the vicinity of joints or guttering.
- In case of high ambient and substrate humidity, yellowish/transparent, slightly shiny and sticky drips may form after the product has been applied. These are caused by the water-soluble surfactants present in the product. This phenomenon can be eliminated by washing the walls or simply waiting for repeated rain. The characteristics of the film and the degree of protection are not altered by this phenomenon. Should a further application of the product be carried out, it will be necessary to thoroughly wash the walls, and apply a preventive coat of Universal Wall Grip. This phenomenon does not occur in stable climatic conditions.
- High ambient humidity, condensation and substrate roughness can promote the accumulation of dust and spores and favour the surface growth of microorganisms, affecting the aesthetics of the finishing coat.
- 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.

Special notes

- Evaluate seasonal application conditions (different temperature and moisture conditions result in significant differences in paint drying and/or reaction times).
- 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.
- External decorative coverings are made of binders, pigments and mineral fillers, used to achieve the aesthetic appearance and texture of the product.
- During application of dark colours, the force of application may lead to breaking or crushing of inert materials that will show within the product, as their original colour. Should such imperfections appear, they may be treated by applying a paint of the same colour and characteristics as the chosen covering. Note once dark colours are completely dry, a blackboard effect may occur when rubbing the surface with hands and/or fingers.
- 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.

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

Protection and decoration of internal and external surfaces and of external insulation panelling systems, will be carried out by applying with a steel float and finishing with a plastic float a high-coverage, mineral covering with compact effect, featuring water-based siloxane resins, highly breathable, with high levels of protection against atmospheric agents, pollution and bacteria, fungi and algae, such as Silox Finish by Kerakoll Spa, compliant with the performance requirements of standard EN 15824 and meeting the requirements of European Assessment Document EAD 040083-00-0404 for insulation with external insulation panelling systems. Permeability to water vapour class V1 (high) according to standard EN ISO 7783, permeability to liquid water class W3 (low) according to standard EN 1062-3, adhesion ≥ 0.3 MPa according to standard EN 1542, thermal conductivity (λ) 0.83 W/(m K) according to standard EN 1745:2002. Available in the 69 shades of the Cool Colors Solar-Scud colour chart, Silox Finish is formulated with special heat-reflective pigments that reflect most of the incident solar radiation; they remain cooler and solve the problem of overheating of opaque vertical walls, despite the use of intense colours.

Technical Data compliant with Kerakoll Quality Standard	
Appearance	white or coloured paste
Volumetric mass	≈ 1.85 kg/l
Chemical nature	siloxane polymers
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	≤ 6%
Waiting time between subsequent coats	≥ 12 hrs
Maximum thickness per layer	1 mm (S-1.0) – 1.2 mm (M-1.2) – 1.5 mm (M-1.5)
Coverage per single coat	≈ 1.8 kg/m² (S-1.0) – ≈ 2.1 kg/m² (M-1.2) – ≈ 2.4 kg/m² (M-1.5)
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
Permeability to water in liquid form	class W3 (low)	EN 1062-3
Respects the Kuenzle theory	$w < 0,5 \text{ kg / m}^2 \cdot \text{h}^{0,5} - S_p < 2 \text{ m}$	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
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

- Abide by any standards and national regulations

→ 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 Kerakoll Technical Customer Service: + 39 0536.811.516

→ www.kerakoll.com/contatti



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