Geolite Microsilicato

Mineral geo-paint for decorative protection of concrete. Breathable, anti-carbonation. Fine grain effect.



Geolite Microsilicato is an opaque, "mottled" effect filling geo-paint for the monolithic protection of new or restored concrete. It is anti-carbonation, resistant to atmospheric agents, algae and mould.

1. **Anti-carbonation monolithic covering**
2. **Breathable**
3. **Protects and regenerates concrete surfaces with fine-grain effect**

kerakoll

Areas of application

→ Use
Regenerative and protective decoration of:
- concrete structures and infrastructures, and elements repaired with geo-mortars from the Geolite range or with traditional mortars that have reached a final dimensional stability;
- front sections of balconies and cornices;
- facades of residential, commercial and industrial buildings;
- exposed aged concrete;
- conventional plasters/renders and, more generally, on all types of mineral substrates based on aged hydraulic binders;
- for the protection of reinforcement systems created using Geolite or Geocalce matrix.

Suitable for decorative work using well-anchored and compact synthetic paints and coverings, that do not re-emulsify.
Suitable for internal and external use.

Do not use on dehumidifying plasters/renders, on wet substrates (not cured), on substrates which are dirty and powdery. On gypsum-based substrates. For the containment or continuous contact with water. On substrates subject to water infiltrations and/or capillary moisture rising.

Instructions for use

→ Preparation of substrates
Surfaces to be protected must be perfectly well cured, stable and clean. All weakened parts, any layers of old paint which have begun to peel, dust, parting compounds and deposits of moss, lichen and algae are to be removed. Cleaning must be carried by pressure washing, hydro-sandblasting or sandblasting. Small operations can be carried out by cleaning with a metal brush. 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
Geolite MicroSilicato is ready-to-use. Always remix the product before application. According to the applications and the type of substrate, Geolite MicroSilicato can be diluted with water up to 8% by volume (maximum dilution allowed) for the first and second coat.

→ Application
Geolite MicroSilicato must be applied carefully in two coats over the entire surface to be protected, with a brush or roller, taking care to apply the colour in a criss-cross, irregular manner.
After applying the first coat of Geolite MicroSilicato, wait at least 12 hours before applying the subsequent coat.
Geolite MicroSilicato can be applied both externally and internally in several coats according to the level of coverage and chromatic effect required.
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 Geolite Microsilicato can be removed from tools using water before the product hardens.

Special notes

→ Apply Geolite MicroSilicato at temperatures from +5 °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 72 hours.
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 after application, to promote hardening of the binder by silication.
Given the purity of the Geolite MicroSilicato 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.

Certificates and marks

CE EN 1504-2(C) | PI METHOD 1.3 EN 1504-2 | MC METHOD 2.2 EN 1504-2 | IR METHOD 8.2 EN 1504-2 | EPD-IES-0022539 environdec.com | ÉMISSIONS DANS L'AIR INTÉRIEUR* A+ (A+ A B C)

** 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

Supply and laying of certified, mineral geo-paint with a geo-active, silicate micro-particle base, specific for the decoration, regeneration and guaranteed, long-lasting monolithic protection of concrete, such as Geolite Microsilicato di Kerakoll Spa, for the decoration, regeneration and protection of new or restored, perfectly stable and cured concrete surfaces by application using a brush, roller or spray. CE-marked and compliant with the performance requirements of standard EN 1504-2 for surface protection and according to principles 1, 2 and 8 as defined by standard EN 1504-9.

Technical Data compliant with Kerakoll Quality Standard		
Appearance	white or coloured paste	
Chemical nature of binder	pure potassium silicate	
Shelf life	≈ 12 months from production in the original sealed packaging	
Warning	protect from frost, direct exposure to sunlight and sources of heat	
Pack	secchi 14 l – 4 l	
Temperature range for application	from +5 °C to +30 °C	
Dilution with water 1st and 2nd coat	max 8% by volume	
Waiting time between 1st and 2nd coat	≈ 12 hrs	
Rain interval at 20 °C and RH ≤ 80%	at least 72 hrs	
pH on packaging	≈ 12	
Viscosity	≈ 30000 cps, rotor 6 RPM 10	Brookfield method
Volumetric mass (specific weight) at +20 °C	≈ 1,5 kg/l	
Vapour permeability (Sd)	≤ 0,008	
Coverage on fine-texture finished substrate	≈ 0.35 l/m² for two coats	

Values taken at +21 °C, 60% R.H. and no ventilation. Data may vary depending on specific conditions at the building site.

Performance

HIGH-TECH

Performance characteristic	Test Method	Requirements of standard EN 1504-2 (c)	Geolite MicroSilicato Performance
Carbon dioxide permeability	EN 1062-6	s_D (CO_2) > 50 m	s_D (CO_2) > 50 m
Water vapour permeability	EN ISO 7783-2	Reference class	class I: SD < 5 m
Capillary absorption and water permeability	EN 1062-3	w < 0.1 kg·m^{-2}·hrs$^{-0.5}$	w < 0.1 kg·m^{-2}·hrs$^{-0.5}$
Bond strength by pull off	EN 1542	≥ 0,8 MPa	> 0,8 MPa
Thermal compatibility with freeze/thaw cycles with de-icing salts	EN 13687-1	after cycles, evaluation of change in surface	none
Hazardous substances		compliant with point 5.4	

Warning

→ abide by any standards and national regulations
→ use at temperatures between +5 °C and +30 °C
→ any dilution must take place once only before application
→ scaffolding must be screened with suitable sheets to protect from sun, wind and rain during application and during the curing period (72 hours)
→ we recommend obtaining all the material at the same time
→ 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 - info@kerakoll.ae

This information was last updated in May 2026; please note that additions and/or amendments to this information 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 of 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.

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