



SILICATE SILICONE DECORATIVE PLASTER FOR INTERNAL AND EXTERNAL APPLICATION.



PRODUCT DESCRIPTION

Silicate Pro is a fiber-reinforced elastomeric coating which, thanks to its high elasticity, including at low temperatures, has the capacity to follow and absorb small deformations in substrates. Also, the fibers contained in the product form an interwoven strengthening matrix, with the capacity to withstand deformations in the coating and to hide any hairline cracks in the finishing layer. Silicate Pro also contains acrylic resins, which give substrates high water repellence combined with good vapor permeability.

FIELD OF APPLICATION

- Decorating and protecting all types of cementitious and lime-based render.
- Decorating façades with hairline cracks, including façades with old paint.
- Decorating façades damaged by mold and algae, including façades with old paint.
- Protective coating for façades at risk of being damaged by mold and algae.
- Finishing coat for façades with external thermal insulation System.

SUITABLE SUBSTRATES

- Concrete
- Cement Mortar
- Cement-Lime Mortar
- Paint.

LIMITATIONS

- Do not apply directly on surfaces where mold or algae are present.
- Do not apply on damp substrates or on substrates which are not completely cured.
- Do not apply if the temperature is lower than +5°C or higher than +35°C.
- Do not apply if the level of humidity is higher than 85%.
- Do not apply if it is about to rain, in windy weather or if there is direct sunlight.
- Do not apply on de-humidifying render.

APPLICATION PROCEDURE

A) Preparation of the substrate

New surfaces to be painted and areas patched up with repair mortar must be well-cured, perfectly clean, cohesive and dry. Remove all traces of oil and grease from the surface and any parts which are not well attached. Seal all cracks and repair deteriorated areas. Surfaces to be finished off with Silicate Pro must be treated prior to application, depending on the type of protection required. Treat with DCI Grip Primer to protect against the formation of mold and algae; use Primer ACR for all other cases. On substrates where the curing is uncertain, on chalking substrates and on substrates with low absorbency, use DCI Grip Primer. Remove all traces of existing algae, mold and fungi. Silicate Pro may be applied on concrete, skim coats over thermal insulation systems and on render if they have cracks less than 0.5 mm wide without having to seal the substrate beforehand.

B) Preparing the product

Silicate Pro is supplied ready-mixed and just needs to be blended with a drill at low-speed. If the product is too thick, add 1-2% of water.

C) Applying the product

Apply Silicate Pro with a stainless steel or plastic spreader over the dry primer. It may also be applied by spray if suitable equipment is available. The protection cycle comprises the application of one coat of Silicate Pro: spread an even coat of product on the surface, and then go over the product with a plastic float to create an even finish to create the effect required. Depending on the particle size of the product and the roughness of the substrate, two coats may be required to form a perfectly even aesthetic effect. The combination properties of the silicone and elastomeric polymers form a film with high adhesion strength, protection, durability and color stability and very low

dirt pick-up. Silicate Pro is resistant to the growth of mold and algae, and may be used for decorating buildings located in particularly damp climates favorable to the growth of such micro-organisms.

COVERAGE / CONSUMPTION

Consumption is affected by the roughness of the substrate and the grain size of the product. Consumption is around 2-2.5 kg/m².

PACKAGING

Silicate Pro is supplied in:
– 25 kg plastic buckets.

SHELF LIFE-STORAGE

Original sealed bags of this product are guaranteed to be of first quality for 24 months if stored off of the ground in a dry area. High humidity will reduce the shelf life of the bagged product.

SAFETY INSTRUCTION

Silicate Pro is dangerous for aquatic life, do not dispose of it in the environment. During use wear protective gloves and goggles and take the usual precautions for handling chemicals. If the product comes in contact with the eyes or skin wash immediately with plenty of water and seek medical attention. If the products are applied in closed environments, make sure they are well ventilated to guarantee a continuous circulation of fresh air. For further and complete information about the safe use of our product please refer to the latest version of our Safety Data Sheet. **PRODUCT FOR PROFESSIONAL USE.**

TECHNICAL DATA

Product identity	
Consistency:	paste
Color	white
Density (g/cm ³):	approx. 1.70
Dry solids content by weight (%):	approx. 80
Grain size:	1.0 mm, 1.2 mm and 1.5 mm
Application data (at +23°C and 50% R.H.)	
Dilution rate:	ready-to-use
Recoat time:	12-24 hours
Application temperature range:	from +5°C to +35°C
Consumption (kg/m ²):	2-2.5
Final performances	
VOC content of ready-mixed product (white) (European Directive 2004/42/EC) (g/l)	≤ 10
VOC content of ready-mixed product (colored) (European Directive 2004/42/EC) (g/l)	≤ 30
Resistance to mold and fungi according EN 15457	no growth
Resistance to algae according EN 15458	no growth
Reaction to fire	A2 s1 d0
Thermal conductivity	0.89 W/mK (tab value, P = 90%)
Adhesion (N/mm ²)	1.6
Water absorption w [kg/(m ² ·h)]	0.01
Water vapor permeability S (m)	0.35
Crack-bridging ability (µm)	900



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