

SILOKSAN FACADE

Silicone emulsion paint

SILOKSAN FACADE is a water-borne, full-matt silicone emulsion based paint for mineral surfaces. The paint is very permeable and water-repellent.



Use: New and previously painted facades outdoors, e.g. concrete, plaster, burnt brick, lime-sand brick and mineral boards.

SILOKSAN FACADE silicone emulsion paint is easy to apply with roller or spray. Its binder composition prevents the paint from becoming brittle by the action of UV-light or heat. As SILOKSAN FACADE is water-repellent it keeps clean even in urban climate, and acid gases in the atmosphere do not corrode it. SILOKSAN FACADE can be overcoated the same day. It does not require any separate priming coat on most unpainted or previously painted surfaces, when SILOKSAN GEL is added into the paint for the first coat.



TECHNICAL DATA

Certificates, approvals and classification	CE marking, Finnish Key Flag
Fields of application	Outdoor wall, Socle
Recommended substrate	Cement plaster, Clay brick, Concrete, Lime sand brick
Solids	Approx. 36% by volume
Volatile organic compound (VOC)	EU VOC limit value (kat A/c): 40 g/l. The product's VOC: max. 40 g/l.
Practical spreading rate	4 - 6 m ² /l.
Colours	Base paints 1 (white) and 3, which can be tinted to obtain the shades in Exterior Colour Card.
Tinting system	Teknomix
Gloss (60°)	Full-matt
Thinner	Water.
Density	Approx. 1.5 g/ml
Storage	Must not freeze.
Packaging	Base paints 1 and 3: 2.7 l, 9 l, 18 l. Availability varies by country.
Water-vapour permeability (EN ISO 7783)	$s_d < 0,14 \text{ m}$

DIRECTION FOR USE

Surface preparation

NEW SURFACES: New concrete element or cast surfaces can be painted with SILOKSAN FACADE Silicone emulsion paint when a minimum of one month has passed after the casting, the surface is completely bound and no longer wet or matt moist. In measurements the moisture values of the concrete must be under 97% as relative humidity (RH) or 4 % as per cent by weight. It is recommended that new plaster surfaces are coated only after a hardening time of 6 - 8 weeks.

Remove all dirt from the surfaces by cleaning with high pressure washer. When needed, add sand to the washing water or use a steel brush or similar in order to achieve sufficient surface profile (e.g. mould-cast surfaces). NOTE! When painting concrete elements take care of removing the laitance before painting. When preparing and painting substrates containing asbestos, regulations given by authorities must be followed.

PREVIOUSLY PAINTED SURFACES: Remove flaking and poorly adherent or pulverized (e.g. lime wash) paint coats from previously painted surfaces. The method to be used is chosen depending on the strength of the substrate and the type of the paint to be removed (e.g. wire-brushing, hot pressurized-water cleaning or water-sand cleaning). Remove also poorly adherent, brittle plaster and concrete surfaces. Check the condition of the concrete seams and repair where required.

If concrete constructions have cracks by the reinforcement bars, these cracks are to be opened by e.g. chipping or with a grinding machine. After this the concrete is roughened, if required. Clean all rust from the exposed steel bars and protect them with e.g. a coat of INERTA MASTIC epoxy coating. Use appropriate mortar, on plaster surfaces repair mortar, to repair the opened cracks and dents. Finish the repaired areas carefully and let them harden before they are painted.

Priming

Stir thoroughly before use. Prime clean and solid mineral surfaces with SILOKSAN FACADE Silicone Emulsion Paint with an addition of SILOKSAN GEL (9 : 1). For priming the paint may be diluted by 5 % with water. This priming can also be used for previously painted surfaces.

Application method

Airless spraying, Brush, Roller
Suitable airless nozzle size 0.017 - 0.021".

Application conditions

During the application and drying period the temperature of the ambient air, the surface and the product shall be above +5 °C and the relative air humidity below 80%.

Drying time	+23 °C / 50% RH
- dust free	30 min
- overcoatable	2 - 3 h
	The drying process will be slower in cold and/or damp.
Top coating and suitable top coats	Top coating with undiluted SILOKSAN FACADE silicone emulsion paint. Reserve a sufficient amount of paint of the same batch for each uniform surface to prevent possible colour differences. If different batches must be used, possible seams between the batches are placed as inconspicuously as possible and are painted with a mixture of paint from both batches (e.g. 1 : 1).
Resistance	Weather resistance: Very good.
Cleaning	Water.

HEALTH AND SAFETY

Safety and precaution measures See safety data sheet.



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Declaration of Performance No. 0018

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(tested in the following coating systems: SILOKSAN FACADE silicone emulsion paint with the addition of SILOKSAN GEL SILOKSAN PRIMER, priming + SILOKSAN FACADE silicone emulsion paint)

Surface protection products – Coatings

Moisture control (2.2)

Increasing resistivity (8.2)

Water vapour permeability	Class I: $s_D < 5$ m
Capillary absorption and permeability to water	Requirement: $w < 0,1 \text{ kg/m}^2\text{h}^{0,5}$
Adhesion strength by pull of test	Requirement: Rigid system without trafficking: $\geq 1,0$ (0,7) N/mm ²
Dangerous substances	See safety data sheet

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