

**DATA SHEET 971**

14 09.11.2017

SILOKSAN FACADE
silicone emulsion paint

PAINT TYPE	SILOKSAN FACADE is a water-borne, full-matt silicone emulsion based paint for mineral surfaces. The paint is very permeable and water-repellent. It is free of solvents that contain aromatics.
USAGE	New and previously painted facades outdoors, e.g. concrete, plaster, lime-sand brick and mineral boards.
SPECIAL PROPERTIES	<p>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.</p> <p>SILOKSAN FACADE can be overcoated <i>the same day</i> . 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.</p>
APPROVALS	The paint has CE approval for protection of concrete structures. Additional information: see page 3: "CE MARKING".
TECHNICAL DATA	
Solids	About 36 % by volume
Water vapour permeability (EN 1062-1)	$s_d < 0.14 \text{ m}$
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
Density	1.5 g/ml
Drying time at +23°C / 50% RH	
- dust free	after 30 minutes
Overcoatable	after 2 - 3 hours The drying process will be slower in cold and/or damp.
Thinner, clean up	Water
Finish	Full-matt
Colours	Colours of the SILOKSAN colour card.
Weather resistance	Very good.
Packages (availability varies by country)	Base paint 1: 2,7 L, 9 L, 18 L Base paint 3: 2,7 L, 9 L, 18 L
SAFETY MARKINGS	See Safety Data Sheet.

DIRECTION FOR USE**Surface preparation****NEW SURFACES:**

New concrete element or cast surfaces can be painted with SILOKSAN FACADE 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 handling 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

Before use stir the paint thoroughly.

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.

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).

Application equipment

Apply by brush, roller or airless spray.

Suitable nozzle for airless spray is 0.017 - 0.021".

Application conditions


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

Storage

Must not freeze.

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CE MARKING

	
0809	
Teknos Oy Takkatie 3, P.O. Box 107 FI-00371 Helsinki, Finland 13 Declaration of Performance No. 0018 (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)	
0809-CPR-1063 EN 1504-2:2004 Surface protection products – Coatings Moisture control (2.2) Increasing resistivity (8.2)	
Water vapour permeability	Class I: $s_o < 5 \text{ m}$
Capillary absorption and permeability to water	Requirement: $w < 0,1 \text{ kg/m m}^{2,0.5} \text{ h}^{0.5}$
Adhesion strength by pull of test	Requirement: Rigid system without trafficking: $\geq 1,0 (0,7) \text{ N/mm}^2$
Dangerous substances	See safety data sheet

The information of this data sheet is based on laboratory tests and practical experience. The figures are for guidance only and depend on, for example, colour and gloss. As we have no control over the use and application conditions, we are only responsible for the quality of the product and guarantee that it conforms to our quality control. We accept no liability for any loss or damage resulting from the application of the product contrary to the directions or the intended use. The latest versions of our data sheets, material safety data sheets and system sheets are on our home pages www.teknos.com.



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