

SILOKSAN ANTI-CARB

protective paint

PAINT TYPE	SILOKSAN ANTI-CARB is a matt, water-borne and acrylate-based protective paint for concrete. It protects concrete from carbonation caused by carbon dioxide, and from deterioration caused by moisture.
USAGE	New and previously painted facades outdoors, e.g. concrete, plaster, lime-sand brick and mineral boards.
SPECIAL PROPERTIES	SILOKSAN ANTI-CARB protective paint is easy to apply with roller or spray. Its binder composition gives it good colour retention in strain caused by UV radiation. The matt surface of SILOKSAN ANTI-CARB has good resistance to mechanical strain, abrasion, and stresses during the construction period. The paint is also easy to clean. SILOKSAN ANTI-CARB does not require any separate priming coat, and priming made with diluted paint can in normal conditions be overcoated the same working day.
APPROVALS	The paint has CE approval for protection of concrete structures. Additional information: see page 3: "CE MARKING".

TECHNICAL DATA

Solids	About 38 % by volume
Liquid water permeability (EN 1062-3)	$w < 0.1 \text{ kg/m}^2 \cdot \text{h}^{0.5}$
Permeability to CO₂ (EN 1062-6)	$s_D > 200 \text{ m}$
Water vapour permeability (EN 1062-1)	$0.14 \text{ m} \leq s_a < 1.4 \text{ m}$
Adhesion strength (EN 1542)	$> 3.0 \text{ N/mm}^2$
Weather resistance	Good, also in maritime and industrial climate.
Density	abt. 1.3 g/ml, ISO 2811
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
Drying time at +23°C / 50% RH - dust free Overcoatable	after 30 min after 2 hours The drying process will be slower in cold and/or damp.
Thinner, clean up	Water
Finish	Matt
Colours	According to the Colour Cards for exterior paints The paint is included in the Teknomix tinting system.
Packages (availability varies by country)	Base paint 1: 9 L, 18 L Base paint 3: 9 L, 18 L

SAFETY MARKINGS	See Safety Data Sheet.
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DIRECTION FOR USE**Surface preparation****NEW SURFACES:**

New concrete element or cast surfaces can be painted with SILOKSAN ANTI-CARB 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.

Surfaces to be painted are washed, if required, and loose impurities, plaster splashes etc. are removed.

NOTE! When painting concrete surfaces 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. 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. INERTA MASTIC epoxy coating. Use appropriate repair mortars to repair the opened cracks and dents to the level of the surrounding surface. 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 ANTI-CARB protective paint. For strongly absorbent surfaces dilute the paint 5-10% by volume with clean water.

Top coating

With undiluted SILOKSAN ANTI-CARB protective paint.

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. 0033	
0809-CPR-1063 EN 1504-2:2004 Surface protection products - Coatings Ingress protection (1.3) Moisture control (2.2) Increasing resistivity (8.2)	
Permeability to CO ₂	Requirement: $s_D(\text{CO}_2) > 50 \text{ m}$
Water vapour permeability	Class I: $s_D < 5 \text{ m}$
Capillary absorption and permeability to water	Requirement: $w < 0,1 \text{ kg/m}^2\text{h}^{0,5}$
Adhesion strength by pull-off 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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