

SILOKSAN ANTI-CARB

Protective paint

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.



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

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.



TECHNICAL DATA

Certificates, approvals and classification	CE marking, Finnish Key Flag
Fields of application	Outdoor wall
Recommended substrate	Concrete, Cement plaster, Lime sand brick
Solids	Approx. 38% 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°)	Matt
Thinner	Water.
Density	abt. 1.3 g/ml, ISO 2811
Storage	Must not freeze.
Packaging	Base paints 1 and 3: 9 l, 18 l. Availability varies by country.
Water-vapour permeability (EN ISO 7783)	$0,14 \text{ m} \leq s_d < 1,4 \text{ m}$
Liquid water permeability (EN 1062-3)	$w < 0,1 \text{ kg/m}^2 \cdot \text{h}^{0,5}$
Permeability to CO₂ (EN 1062-6)	$s_d > 200 \text{ m}$
Adhesion strength (EN 1542)	$> 3,0 \text{ N/mm}^2$

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. Smooth concrete surfaces are roughened in order to ensure adhesion of the paint. 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

Stir thoroughly before use. 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.

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 h

The drying process will be slower in cold and/or damp.

Top coating and suitable top coats

Top coating with undiluted SILOKSAN ANTI-CARB protective paint.

Resistance	Weather resistance: Good, also in maritime and industrial climate.
Cleaning	Water.

HEALTH AND SAFETY

Safety and precaution measures	See safety data sheet.
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**0809**

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Declaration of Performance no. 0033

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EN 1504-2:2004

Surface protection products - Coatings

Ingress protection (1.3)

Moisture control (2.2)

Increasing resistivity (8.2)

Permeability to CO₂Requirement: $s_D(\text{CO}_2) > 50 \text{ m}$

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

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