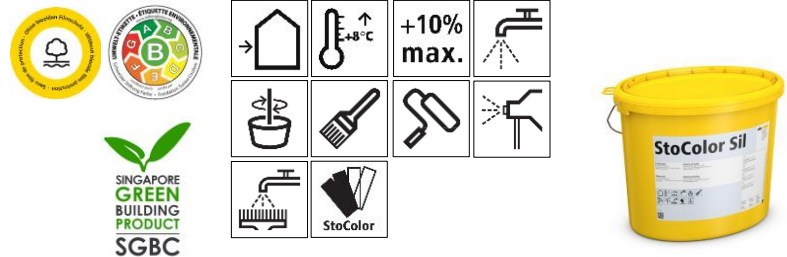


Technical Data Sheet

StoColor Sil

Facade paint on a silicate base



Characteristics

Area of application

- Exterior
- On mineral and silicate substrates
- Suitable in accordance with WTA data sheet 2-12 (Facade coatings for mineral substrates in building maintenance and building conservation)
- Not suitable for horizontal or sloping surfaces that are exposed to weather conditions

Properties

- Texture-retaining
- Very good hiding power
- Water-repellent
- Very high CO₂ and water vapour permeability
- High colour stability for a silicate paint
- With biocide film protection

Appearance

- Matt

Information/notes

- Silicate emulsion paint in accordance with DIN 18363

Technical Data

Criteria	Standard / test specification	Value/ Unit	Notes
Density	EN ISO 2811	1.5 - 1.6 g/cm ³	
Diffusion-equivalent air layer thickness	EN ISO 7783	< 0.01 m	V1 high
Water permeability rate w	EN 1062 -1	< 0.1 kg/(m ² h ^{0.5})	W3 low
Water vapour diffusion - equivalent air layer thickness μ	EN ISO 7783	50	Average value
Gloss	EN 1062-1	G3 Matt	G3
Dry layer thickness	EN 1062-1	200 μm	E3 > 100; ≤ 200
Grain size	EN 1062-1	< 100 μm	S1 fine
Mass flow density V		> 2000 g/(m ² d)	

The characteristic values stated are average values or approximate values. Due to the natural raw materials in our products, the stated values can vary slightly in the same delivery batch; this does not affect the suitability of the product for its intended use.

Substrate

Requirements

The substrate must be firm, dry, clean, load-bearing and free from sinter layers efflorescence and release agents. Damp or not fully cured substrates can lead to defects in subsequent coats, such as blistering or cracks

Preparations

Check existing coatings for their load-bearing capacity. Remove any non-load bearing or structurally weak coatings.

Technical Data Sheet

StoColor Sil

Application

Application temperature Lowest temperature of substrate / air : +8°C
 Highest temperature of substrate / air: +30°C

The substrate temperature must be above the dew point temperature.
 The recommended difference is +3°C. Protection if require to lower down substrate temperature.

Material preparation

Usage as an intermediate coat: dilute with max. 10 % water.
 Usage as a finish: dilute with max. 10 % water.

1. Dilute with as little water as possible to achieve application consistency. Stir the material well before application. If applying the material by machine or pump, adjust the application consistency accordingly.
2. Use only very little water to dilute intensely tinted material. Too much dilution impairs the properties of the material, e.g. with regard to application, hiding power, and colour shade intensity.

Consumption

Type of application	Approx. consumption
Per paint coat	0.15 - 0.20 lit/m ²
For 2 coats	0.30 - 0.40 lit/m ²

Material consumption depends on the application, substrate, and consistency, among other factors. The stated consumption values are only to be used as a guide. If required, determine precise consumption values on the basis of the specific project.

Coating build-up

Primer:
 StoPrim Silicate, StoPlex W

Intermediate coat:
 StoColor Sil

Finish:
 StoColor Sil

Depending on the substrate and colour shades, further paint coats are necessary.
 The technical data are based on a double paint coat.

Application

By paint brush, by roller, by airless sprayer

General information on installation:
 Use a nozzle extension and a flexible whip hose.

Low-overspray application with an airless sprayer:
 Nozzle size, dimensions in inches: 0.017 - 0.025
 Pressure: 100 - 150 bar

Note:
 The nozzle and pressure information are recommendations. The settings and specifications to achieve an optimum result may change depending on the machine type and project conditions. Additional information can be obtained from the machine manufacturer.

Technical Data Sheet

StoColor Sil

Drying, curing, ready for next coat Higher humidity, lower temperatures, and low air exchange prolong the curing and drying times.
 During unfavourable weather conditions, apply suitable protective measures (e.g. protection against rain) to the work in progress and freshly completed facades.
 At +20 °C temperature (air and substrate) and 65 % relative air humidity: overcoatable after approx. 8 hours.

Cleaning the tools Tools must be cleaned immediately after use with clean water.

Delivery

Colour White, limited tintability in accordance with the StoColor System

Tinted material:
 Before application, check that the material corresponds to the colour shade ordered. Slight colour shade deviations compared with previous deliveries are possible.
 Only use deliveries with the same batch number on one surface. Mix different batches before application.

Colour stability:
 The effects of weather, moisture, UV radiation, and deposits can alter the surface of the coating. Changes in colour shade are possible.
 The change process is dynamic and influenced by climatic conditions and exposure. National regulations, data sheets etc. apply.

Extender material breakdown:
 Mechanical stress can damage the extenders in the material and lead to lighter marks. This does not influence the product quality or functionality.

Colour accuracy:
 Different weather and project conditions influence colour shade accuracy and colour shade uniformity. Avoid the following conditions (a - d) in every case:
 a) uneven absorbency of the substrate
 b) different levels of substrate moisture over an area
 c) partly very different alkalinity and/or substances in the substrate
 d) direct sunlight with sharp, clear shadows on a still-damp coating

Washout of processing aids:
 If water such as condensation, fog, or rain comes into contact with not fully dry coatings, processing aids may be released from the coating and build up on the surface.
 Whether the effect is strongly visible or not depends on the intensity of the colour shade. This does not influence the product quality.
 The effects disappear when the surface is exposed to further weathering.

Packaging	Article No	Name	Packing
	00207-039	StoColor Sil White	15 lit
	53000-347	StoColor Sil, Tinted	15 lit

Technical Data Sheet

StoColor Sil

Storage

Storage conditions Store in tightly sealed original container in cool and frost-free conditions. Protect from direct sunlight.

Storage life Provided the storage conditions are adhered to, the quality of the product in its unopened, original container is guaranteed until the maximum storage life has expired. The storage life can be deduced from the batch number of the container.

Batch number explanation:

Number 1 = the last number of year, numbers 2 + 3 = a calendar week example:
6450013223 – storage life until week 45 of 2026

Use promptly after opening. Contamination, e.g. due to a soiled tool, can shorten the shelf-life.

Identification

Product group Facade Paint

Safety Please refer to Safety Data Sheet.

Special Notes

The information in this Technical Data Sheet serves to ensure the product's intended use, or its suitability for use, and is based on our findings and experience. Users are nevertheless responsible for establishing the product's suitability and use.

Applications not specifically mentioned in this Technical Data Sheet are permissible only after prior consultation. Where no approval is given, such applications are at the user's own risk. This applies in particular when the product is used in combination with other products.

When a new Technical Data Sheet is published, all previous Technical Data Sheets are no longer valid. The latest version is available on www.sto-sea.com.

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*Product images may differ from the actual product.