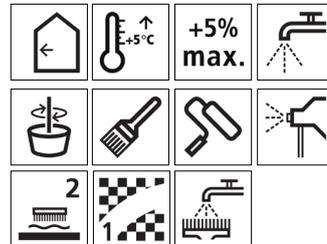


Technical Data Sheet

StoColor Sil In

Physiologically harmless, preservative-free, dead-matt interior silicate paint, wet scrub resistance 2 and hiding power 1 in accordance with EN 13300



Characteristics

Area of application

- Interior
- For paint coats with a mineral appearance on walls and ceilings especially for sensitive areas, e.g. nursery schools, hospitals
- Suitable for high-quality refurbishments of mould-infested interior surfaces, thanks to the mildew-inhibiting effect
- As a preventative paint coat for food-processing areas, e.g. slaughterhouses, dairies, and breweries

Properties

- Mildew-inhibiting
- Resistance to surface disinfectants
- Meets the requirements of foodstuff hygiene
- Non-combustible depending on system build up
- Good hiding power
- Organic content < 5%
- Solvent and plasticiser free, low-emissions
- TÜV seal of quality - externally monitored
- Free from substances that contributes to "black dust" on walls

Appearance

- Dead-matt in accordance with EN 13300

Technical Data

Criteria	Standard / test specification	Value/ Unit	Notes
Density	EN ISO 2811	1.4 - 1.6 g/cm ³	
Spreading rate	EN 13300	7 m ² /l	
Gloss	EN 13300	Dead-matt	
Wet scrub resistance	EN 13300	Class 2	
Hiding power	EN 13300	Class 1	
Maximum particle size	EN 13300	Fine	
Spreading rate	EN 13300	7 m ² /l	
Water vapour diffusion-equivalent air layer thickness μ	EN ISO 7783	17	Average value

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.

Technical Data Sheet

StoColor Sil In

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 cracking.

Therefore do not apply to damp or soiled substrates..

Preparations

Old substrates:

Remove any loose paint and existing non load-bearing paint coats and clean the surface (mechanically or with suitable cleansing agent).

Plaster of mortar groups PG II + III:

Can be applied directly to substrates with normal suction. Substrate plasters that are very porous, heavily sanding and have strong suction need to be primed with StoPrim Plex.

Gypsum plaster and premixed plasters of mortar groups PG IV (not for mortar group IV d) + V:

Use StoPrim Plex primer.

Gypsum boards:

Boards with absorption capacity need to be primed with StoPrim Plex.

Concrete:

Remove any residues of formwork oil, grease and wax, using a steam cleaning process. Repair/fill any shrinkage holes with StoLevell In Z. Apply StoPrim Plex primer.

Aerated concrete:

Must be primed with StoPrim Plex and smoothed.

Face brickwork:

Use StoPrim Plex to apply priming coat.

Timber, hardboard, chipboard and plywood boards:

Waxed boards must be prepared appropriately. Prime with StoPrim Plex

Load-bearing coating:

Matt coatings with slight suction can be coated directly. Shiny surfaces and gloss coats must be rubbed off with sandpaper and intermediate coat applied with StoPrim Color. Apply StoPrim Plex primer on top of old dispersion coats with strong suction.

Old lime and mineral paint coatings:

Remove as much as possible, using a mechanical process, and clean off any dust. Apply priming coat with StoPrim Plex.

Distemper:

Wash off thoroughly and continue preparation to suit the respective substrate.

Surfaces with mould growth:

Remove mould using a wet cleaning process (e.g. brush or scrape off). Follow up with StoPrim Fungal treatment. Priming coat depends on the type and condition of the substrate.

Technical Data Sheet

StoColor Sil In

Application

Application temperature	Lowest temperature of substrate / air :	+5°C
	Highest temperature of substrate / air:	+30°C

Material preparation	Intermediate coating thinned with max. 5 % water.	
	Top coat thinned with max. 5 % water.	
	Use as little water as possible to achieve application consistency. Stir well before application. For machine application the amount of water added depends on the requirement of the respective machine/pump.	
	As a rule, strong colour shades need less water to achieve the optimum application consistency. Too much thinning of the material will make application more difficult and will result in poorer characteristics (e.g. hiding power, colour shade).	

Consumption	Type of application	Approx. consumption
	Per paint coat	0.12 - 0.14 lit/m ²
	For 2 application cycles	0.24 - 0.28 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	1) Priming coat: Prime with StoPrim Plex.	
	2) Intermediate coat: StoColor Sil In	
	3) Top coat: StoColor Sil In	
	Further coats may be required, depending on the colour shade and the type of substrate. Coating sequence for sensitive areas: The system, consisting of Metylan Power Granulate paste, StoEuro Trend woodchip paper and StoColor Sil In interior silicate paint, is physiologically harmless and therefore particularly suitable for highly sensitive rooms, such as nurseries, bedrooms etc.	

Application	By brush, roller or airless spray gun Apply the paint wet in wet to avoid marks between dry and drying surfaces.	
	By airless spray gun:	
	Nozzle: 0.018" - 0.026"	
	Pressure: 150 - 180 bar	
	Angle of nozzle: 50° Thinning: approx. 5 % with water	

Drying, curing, ready for next coat	Fully dry and load-bearing after approx. 3 to 4 days.	
	When there is high relative humidity and/or low temperatures, the drying process will be delayed accordingly.	
	At +20 °C temperature (air and substrate) and 65 % relative humidity, the next coat can be applied after approx. 6 hours.	

Cleaning the tools	Tools must be cleaned immediately after use with cleaning water
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Technical Data Sheet

StoColor Sil In

Notes, recommendations, special information, miscellaneous

Note on drying:

The board-finishing plasters / filler compounds produced by plasterboard manufacturers can often be particularly sensitive to humidity.

This sensitivity can lead to blistering, swelling of the finishing plaster / filler, and to spalling. For this reason, in its data sheet 'Finishing gypsum slab walls', the Gypsum Products Development Association recommends that rapid drying be encouraged by adequate ventilation and temperature.

Note regarding the test report:

The disinfection agents tested by TÜV SÜD and mentioned in their test report may be different from those currently available in the market. The suitability of these agents should be checked in each individual case.

Delivery

Colour shade

White, aged white AW11/AW15, limited tintability in accordance with the StoColor system

Filler material breakage:

When coated surfaces are exposed to mechanical impact it is possible that, due to the natural filler material used for darker, more intense colour shades, the areas of impact change to a lighter colour. This does not affect the quality and functionality of the product.

Colour accuracy:

Due to differences in the chemical and/or physical curing process on different substrates, it is not possible to guarantee colour accuracy and freedom from stains, particularly in the case of:

- a. uneven suction properties of the substrate
- b. differences in the surface humidity of the substrate
- c. differences in substrate alkalinity / component materials

Note:

When the material is tinted, a small amount of solvent is added to the product together with the pigment paste.

Areas that have been repaired and / or re-worked may show up through the finishing coat. This depends on many factors, which is why the BFS data sheet No. 25 states that this cannot be avoided, even when the original coating material is used.

Tintable

Can be tinted by the user with max. 1 % StoTint Aqua.

Packaging

Article number	Name	Packing
00206-021	StoColor Sil In White	15 lit
53000-346	StoColor Sil In, Tinted	15 lit

Storage

Storage conditions

Store in cool dry conditions; avoid direct sunlight.

Storage life

The quality of the material in its original container is guaranteed for the maximum stated storage life. The storage life information is included in the batch number on the container.

Batch number explanation:

Number 1 = the last number of year, numbers 2 + 3 = a week
i.e.: 1450013223 – stock date until the 45th week of the year 2021

Identification

Product group

Interior Paint

Safety

Please refer to Safety Data Sheet.

Technical Data Sheet

StoColor Sil In

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.