

## StoColor Sil In

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



















### Characteristics

### Area of application

- interior
- for coats with a mineral appearance on wall and ceiling surface areas
- 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**

- preservative-free (untinted versions: white and Sto white shades)
- mildew-inhibiting
- resistance to surface disinfectants in accordance with the test report
- meets the requirements of foodstuff hygiene
- non-combustible depending on build-up
- good hiding power
- organic content < 5 %
- solvent- and plasticiser-free, low-emission
- TÜV seal of quality externally monitored
- free from substances that contribute to "black dust" on walls
- eco-certified fulfills the strictest criteria in terms of environment, health, and functionality (natureplus®)

#### **Appearance**

dead-matt in accordance with EN 13300

### Technical data

Criterion	Standard / test specification	Value/ Unit	Notes
Density	EN ISO 2811	1.4 - 1.6 g/cm <sup>3</sup>	
Diffusion-equivalent air layer thickness	EN ISO 7783	< 0.01 m	V1 high
Wet scrub resistance	EN 13300	class 2	
Hiding power	EN 13300	class 1	



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Spreading rate	EN 13300	7 m²/l	
Water vapour diffusion- equivalent air layer thickness µ	EN ISO 7783	17	average value
Gloss	EN 13300	dead-matt	
Maximum particle size	EN 13300	fine	

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.

#### **Preparations**

The preparation of the substrate and the execution of the coating work must correspond to the generally recognised technological norms. All coatings and preliminary work should always be geared towards the project and the requirements it is exposed to.

Remove loose paint remnants, as well as non-load bearing existing paint coats and coatings, and clean the surface (mechanically or using a suitable paint remover).

Prime coatings must not form a glossy layer.

Normal and strongly absorbent substrates:

Prime with StoPrim Plex or StoPrim GT.

StoPrim Plex is ready-to-use and, depending on the absorption capacity of the substrate, dilutable with up to max. 30 % water.

Weakly absorbent substrates:

Prime with StoPrim Color or StoPrim Sil Color.

Water-soluble ingredients:

Isolate with StoPrim Isol.

StoPrim Isol is ready-to-use and should not be diluted.

Intact, two-component coatings, non-ferrous metals, plastics:

Prime with StoAqua EP Active.

### Mould-infested areas:

Treat the surfaces with Geiger STOP or coat with a 10 % hydrogen peroxide solution followed by thorough and subsequent washing with clear water. Please observe the respective national recommendations and directives when carrying out mould remediation.

When coating acrylic joint filling compounds and sealants, cracks and/or discolouration in the paint coat can occur due to the higher elasticity of the acrylic



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waterproofing compound. Due to the wide range of products on the market, perform your own tests to assess the adhesion.

The coating layer build-ups and recommendations listed do not release the applicator from his or her own responsibility for substrate testing and assessment.

Application temperature	Lowest substrate and air temperature f	for application: +5 °C		
Application temperature	Lowest substrate and all temperature i	or application. +5 °C		
Material preparation	Intermediate coat diluted with max. 5 %	√ water.		
	Finish diluted 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 to add depends on the requirement of the respective machine/pump. As a rule, strong colour shades need less added water to achieve the optimum application consistency. Diluting the material too much will make application more difficult and will result in poorer characteristics (e.g. hiding power, colour shade).			
Consumption	Type of application	Approx. consu	ımption	
	per paint coat	0.12 - 0.14	l/m²	
	for 2 application cycles	0.24 - 0.28	I/m²	
	Material consumption depends on the a among other factors. The stated consu guide. If required, determine precise co specific project.	mption values are only to be us	sed as a	
Coating build-up	Substrate coating: Depends on the type and condition of t	he substrate.		
	Intermediate coat: StoColor Sil In			
	Finish: StoColor Sil In			
	Depending on the colour shade and type necessary.	pe of the substrate, further coat	s may be	
	System build-up for sensitive areas: The system build-up with Metylan Pow wood-chip wallpaper, and StoColor Sil harmful substances. It is therefore espe such as children's rooms, bedrooms, e	In interior silicate paint has been ecially suitable for highly sensit	en tested for	



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	This is confirmed by the TÜV SÜD, TÜV NORD and natureplus <sup>®</sup> seals of quality.
Application	by paint brush, by roller, by airless sprayer
	Apply wet-on-wet over continuous areas to avoid marks between dry and drying surfaces.
	By airless sprayer: Nozzle: 0.018" - 0.026" Pressure: 150 - 180 bar Angle of nozzle: 50° Dilution: approx. 5 % with water
Drying, curing, ready for next	Fully dry and resistant after approx. 3 - 4 days.
coat	High humidity and/or low temperatures prolong drying.
	At +20 °C temperature (air and substrate) and 65 % relative air humidity: over-coatable after approx. 6 hours.
Cleaning the tools	Clean tools with water immediately after use.
Notes, recommendations, special information, miscellaneous	Note on drying: The gypsum filler compounds recommended by gypsum plasterboard manufacturers can be particularly sensitive to humidity. This sensitivity can cause blistering, swelling of the fillers, and spalling. Hence, in its data sheet 'Verspachtelung von Gipsplatten' (Filling gypsum boards), the Bundesverband der Gipsindustrie e.V. (Federal Association of the Gypsum Industry) recommends that rapid drying be encouraged by adequate ventilation and temperature.  Note regarding the test report: The disinfection agents tested and mentioned in the TÜV SÜD's test report may be different from those currently available on the market. The suitability of these agents should be checked in each case.  Unfavourable lighting conditions (glancing light): Recommendation: on smooth surfaces with unfavourable lighting conditions
Delivery	(glancing light), use StoColor Rapid Ultramatt, StoColor Supermatt, or StoColor Sil Comfort.

#### Delivery

Colour shade

white, aged white AW11/AW15, STH01 (RAL 9010), STH02 (NCS S 0500N), STH04 (RAL 9016), limited tintability in accordance with the StoColor System

If tinted versions are used, small amounts of preservatives can get into the material due to the pigments.



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**Tintable** 

#### Extender material breakdown:

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

If applying bright or intense colour shades, we recommend wet-scrub resistance class 1 and mid sheen or gloss surfaces (StoColor Opticryl Satinmatt / Satin / Gloss) This makes the surface easier to clean and increases the resistance to mechanical stress in heavily frequented areas.

#### Colour accuracy:

Due to the chemical and physical setting processes at different project conditions, it is not possible to give any warranty for uniform colour accuracy and freedom from stains especially with regard to:

- a) uneven absorption of the substrate
- b) different substrate moisture levels
- c) partially very different alkalinity/substances in the substrate.

#### Note:

Areas that have been touched up, repaired, and refinished may show up. 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.

Packaging	pail
Storage	
Storage conditions	Store tightly sealed in frost-free conditions.
Storage life	The quality of the product in its original container is guaranteed until the maximum storage life has expired. The storage life information is included in the batch number on the container.  Explanation of batch no.: digit 1 = last digit of the year, digits 2 + 3 = calendar week  Example: 1450013223 - storage life ends week 45in 2021

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

Certificates/approvals		
	TÜV - Certificate No. TM- 07/180413-1	StoColor Sil In (low-emission, physiologically harmless, and production monitored) Analysis and assessment of emissions
	TÜV - evaluation	StoColor Sil In (resistance to surface disinfectants) Assessing resistance to surface disinfectants
	TÜV - evaluation	StoColor Sil In (suitability in food-processing areas) Assessing suitability in food processing areas
	natureplus® - Certificate 0602-0602-046-1	StoColor Sil In Environment - Health - Features



## StoColor Sil In

Test report No. 3-07

StoColor Sil In - mildew-inhibiting action in accordance with

EN ISO 846 and VdL-RL 06

Long-term testing of mildew-inhibiting effect

Product group	Interior silicate paint	
	·	
Composition		
	comprehensive declaration in accordance with the "natureplus <sup>®</sup> " procurement	
	directive	
	inorganic binding agent	
	polymer dispersion	
	titanium dioxide mineral extenders	
	silicate extenders	
	water	
	hydrophobic agents	
	stabilisers	
	thickener	
	anti-foaming agents	
	wetting agents	
Safety	Observe the Safety Data Sheet!	
-	Safety instructions refer to the ready-to-use, unapplied product.	
	If tinted versions are used, small amounts of preservatives can get into the	
	material due to the pigments.	

### 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 the Internet.

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