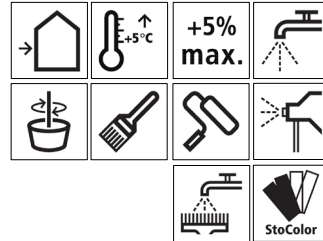


# Technical Data Sheet

## StoColor Lotusan®

Facade paint with Lotus-Effect® Technology, natural protection against algae and fungal attacks, without biocide film protection



### Characteristics

#### Area of application

- Exterior
- For paint coats with reduced adhesion of dirt particles, suitable for mineral and organic, non-elastic substrates
- Not suitable for surfaces that are horizontal (e.g. including joint areas in masonry) or sloping and subject to weathering

#### Properties

- Texture-retaining
- Water vapour permeability
- Reduced wettability with water
- Lotus-Effect® Technology: reduced adhesion of dirt particles and self-cleaning when exposed to rain
- Dirt runs off with the rain
- Natural protection against algae and fungi
- Without biocide film protection
- Low-stress

#### Appearance

- Matt

### Technical Data

Criteria	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 1062 -3	0.01 m	V1 high
Water permeability rate w	EN 1062 -1	< 0.05 kg/(m <sup>2</sup> h <sup>0.5</sup> )	W3 low
Water vapour diffusion - equivalent air layer thickness μ	EN ISO 7783	50	Average value
Gloss	EN 1062-1	Matt	G3
Dry layer thickness	EN 1062-1	220 μm	E3 > 100; ≤ 200
Grain size	EN 1062-1	< 100 μm	S1 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.

Damp or not fully cured substrates can lead to defects in following layers, such as bubble formation or cracks.

The substrate temperature must be above the dew point temperature. The recommended difference is +3°C.

#### Preparations

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

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### Application

<b>Application temperature</b>	Lowest temperature of substrate / air :	+5°C
	Highest temperature of substrate / air:	+30°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. consumption
Per paint coat	0.17 - 0.20 lit/m <sup>2</sup>
For 2 coats	0.34 - 0.40 lit/m <sup>2</sup>

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) Primer:  
 Depending on the type and condition of the substrate, it may be necessary to apply consolidating, absorbency-regulating prime coatings.  
 If using on a mineral substrate, an absorbency-equalising and adhesion-promoting primer is required.  
 Note:  
 If the primer is omitted, this can impair the application properties and the product's appearance. products: e.g. StoPlex W  
 Only a double paint coat gives an optimum water-repellent effect
- 2) Intermediate coat:  
 StoColor Lotusan®
- 3) Finish:  
 StoColor Lotusan®  
 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 spray-gun  
 Low-overspray application with an airless sprayer :  
 Nozzle: 4/17 - 4/25  
 Pressure: 100 - 150 bar  
 Recommendation: Use a nozzle extension and a flexible whip hose.

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<b>Drying, curing, ready for next coat</b>	<p>High humidity and/or low temperatures prolong drying.</p> <p>During unfavourable weather conditions it is very important to apply suitable protective measures (e.g. protection against rain) to the work in progress and freshly completed facades.</p> <p>At +20°C temperature (air and substrate) and 65% relative air humidity: over-coatable after approx. 8 hours.</p>
<b>Cleaning the tools</b>	Tools must be cleaned immediately after use with cleaning water
<b>Notes, recommendations, special information, miscellaneous</b>	<p>The water repellent effect can vary in strength depending on weathering and colour shade.</p> <p>The water repellent effect only acts on oily/greasy dirt to limited extent, due to its reduced wettability with water.</p> <p>Please consult the local sales office for further information and any site assistance required.</p>

#### Delivery

<b>Colour shade</b>	<p>White, tintable in accordance with the StoColor System</p> <p><u>Tinted material:</u> Before application, check that the material corresponds to the colour shade ordered. Slight colour shade deviations compared with previous deliveries are possible.</p> <p>Only use deliveries with the same batch number on one surface. Mix different batches before application.</p> <p><u>Colour stability:</u> 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.</p> <p><u>Extender material breakdown:</u> Mechanical stress can damage the extenders in the material and lead to lighter marks. This does not influence the product quality or functionality.</p> <p><u>Colour accuracy:</u> 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: a) uneven absorption behaviour of the substrate b) different substrate moisture levels over the entire surface c) partially very different alkalinity/substances from the substrate d) direct sunlight with sharply delineated shadowing on the freshly applied coating.</p> <p><u>Washout of processing aids:</u> 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.</p> <p>This does not influence the product quality. The effects disappear when the surface is exposed to further weathering.</p>
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<b>Packaging</b>	<b>Article number</b>	<b>Name</b>	<b>Packing</b>
	03206-006	StoColor Lotusan®, White	15 lit
	53000-345	StoColor Lotusan®, Tinted	15 lit

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### 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** 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](http://www.sto-sea.com).

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\*Product images may differ from the actual product.