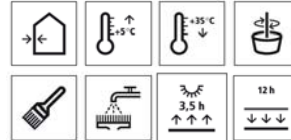


# Technical Data Sheet

## StoAqua Top Satin

Block resistant, open-pored, water-dilutable  
 lasure on an alkyd resin base



### Characteristics

- Area of application**
- exterior and interior
  - for new and old timber, for semi-dimensionally-stable and non-stable building elements
  - do not apply to damp or soiled substrates

- Properties**
- high penetration capacity
  - biocide-free
  - resistant to moisture
  - UV-resistant due to transparent iron oxides
  - non-drip
  - streak-free application
  - good renovation properties
  - very weather-resistant
  - block resistant

- Appearance**
- silk gloss in accordance with EN 13300

### Technical data

Criterion	Standard / test specification	Value/ Unit	Notes
Density		1.02 g/cm <sup>3</sup>	

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 clean, dry, free from grease and separating substances and must be professionally prepared.

Wood, exterior:  
 Sand new, dimensionally stable timbers (also dimensionally stable to a limited extent), then apply a coating system in accordance with BSF data sheet no. 18,

## Technical Data Sheet

### StoAqua Top Satin

consisting of StoPrim Protect AF, then 3 coats of StoAqua Top Satin or StoThixlasur AF.

Note: According to regulations, windows are part of the outer skin and all sides of the workpiece should be coated.

Clean any old coatings with Multi-Star Gescha cleaning agent, remove loose components, and sand grey wood down to healthy wood. Prime with StoPrim Protect AF, then varnish three times with StoAqua Top Satin or StoThixlasur.

Removing or treating layers of paint by sanding, burning off, etc. can cause harmful dust and/or vapours. Carry out work in well-ventilated areas or ensure there is cross ventilation. If necessary, wear suitable respiratory protection.

Wood, interior:

Lightly sand new timber and dust off. Prime with StoAqua Top Satin, apply an intermediate coat of StoAqua Top Satin, then apply a finish of StoAqua Top Satin. Apply the first coat diluted with up to 3 % water, in order to regulate the absorption capacity. Apply the second coating undiluted.

Only particle boards in accordance with DIN 68763 are suitable, type V100 / V110 G.

The moisture content during application and in use must not exceed 12 %. Weatherproof adhesive must be used for bonding all engineered wood.

For multi-layer boards in accordance with DIN 68705, the adhesive must be weather-resistant, but not the engineered wood as a whole.

The absolute moisture must lie between 5 % and 15 %, during application and in use.

For this reason, this engineered wood is only of limited suitability for direct weathering, according to the state of the art.

It cannot therefore be guaranteed that the coating will be free from defects.

Observe BFS data sheets no. 3 and no. 18.

#### Preparations

Check existing substrates for their load-bearing capacity. Remove any non load-bearing or structurally weak coatings. Remove non load-bearing paint remnants as well as non load-bearing old paint coats and coatings (mechanically or using suitable paint remover).

#### Application

##### Application temperature

Lowest substrate and air temperature for application: +5 °C  
Highest application and substrate temperature: +35 °C

##### Material preparation

The product is designed to be ready-to-use, stir well before use. Use water to dilute.

## Technical Data Sheet

### StoAqua Top Satin

Consumption	Type of application	Approx. consumption
	per paint coat	0.12 - 0.17 l/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.

<b>Coating build-up</b>	<p>New and weathered softwoods: Impregnate against blue stain fungi with StoPrim Protect AF in exteriors.</p> <p>Exterior room climate (indirect weathering): 3 coats for all colour shades Open-air climate I (normal weathering): 3 coats for dark colour shades and 4 coats for light colour shades Open-air climate II (extreme weathering): 3 - 4 coats for dark colour shades and 4 - 5 coats for light colour shades</p>
-------------------------	---

<b>Application</b>	<p>by paint brush</p> <p>Apply the product using a flat paint brush or wide flat brush in the direction of the wood grain.</p>
--------------------	--

<b>Drying, curing, ready for next coat</b>	<p>At +20 °C temperature (air and substrate) and 65 % relative air humidity: dust-dry after 1 hour, non-adhering after 3.5 hours, can be painted after 12 hours. Low temperatures and/or high air humidity prolong drying.</p>
--	--

<b>Cleaning the tools</b>	Clean tools with water immediately after use.
---------------------------	---

<b>Notes, recommendations, special information, miscellaneous</b>	<p>Disposal: Mix old, non-bound material with cement, allow to harden, and dispose of it. Hardened or dried-on material can be disposed of together with normal household waste, in accordance with local official regulations.</p>
---	---

#### Delivery

<b>Colour shade</b>	<p>StoColor - RAL - wood colour shades</p> <p>The colour shade of the glaze is influenced by the type and composition of the wood as well as the dry film thickness of the glaze build-up. Deviations from the colour chart are thus possible. To be absolutely certain, apply a test coating in the colour shade of your choice on the surface to be coated.</p> <p>Note: If the StoAqua Top Satin lasure is used on StoVeneer Wood facade panels, colour shades with the following light reflectance values are possible:</p>
---------------------	---

# Technical Data Sheet

## StoAqua Top Satin

- Light reflectance value for organic base coats: maximum 15 %
- Light reflectance value for mineral base coats: maximum 20 %

**Tintable** With max. 1 % StoTint Aqua.

**Packaging** tin

### 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

### Identification

**Product group** Wood stain

### Composition

In accordance with the VdL directive (German Paint and Printing Ink Association) on coating materials for buildings  
 alkyd resin  
 polymer dispersion  
 water  
 glycol ether  
 glycols  
 thickener  
 surface additive  
 dispersing agent  
 anti-foaming agents  
 driers  
 storage protection agent based on BIT/MIT (1:1)

**Safety** Observe the Safety Data Sheet!  
 Safety instructions refer to the ready-to-use, unapplied product.

May cause an allergic skin reaction. Avoid breathing vapours. Wear protective gloves/ protective clothing/ eye protection/ face protection. If skin irritation or rash occurs: Get medical advice/ attention. Take off contaminated clothing and wash it before reuse. Contents/container to be disposed of through approved disposal contractor or taken to municipal collection point.

# Technical Data Sheet

---

## StoAqua Top Satin

### 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.

Sto SE & Co. KGaA  
Ehrenbachstr. 1  
79780 Stühlingen / Germany  
Phone: +49 7744 57-0  
Fax: +49 7744 57-2178  
Infoservice.export@sto.com  
www.sto.com