

# Technical data sheet

## StoColor Climasan

Physiologically harmless, odour-reducing, dead-matt interior dispersion paint, wet scrub resistance 2 and hiding power 1 in accordance with EN 13300



### Characteristics

#### Areas of application

- interior
- for wall and ceiling surfaces with a sufficient light source
- particularly suitable for rooms with a high odour level and for contaminated rooms

#### Properties

- breaks down organic pollutants and odours
- effective without UV light
- very good hiding power
- resistant to surface disinfectants
- solvent- and plasticiser-free, low in emissions
- TÜV seal of quality - externally monitored
- free of fogging-active substances

#### Appearance

- dead-matt in accordance with EN 13300

### Technical data

Criterion	Standard / test regulation	Value/ Unit	Notes
Density	EN ISO 2811	1.3 - 1.5 g/cm <sup>3</sup>	
Spreading rate	EN 13300	7 m <sup>2</sup> /l	
Gloss	EN 13300	dead-matt	
Wet scrub resistance	EN 13300	class 2	
Hiding power	EN 13300	Class 1	
Maximum grain size	EN 13300	fine	

The characteristic values stated are average values or approx. values. We use natural raw materials in our products, which means that 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, and load-bearing, as well as free from sinter layers, efflorescence and release agents. Damp or not fully cured substrates can lead to defects in subsequent layers, such as blistering or cracks. Therefore do not apply onto damp or soiled substrates.

#### Preparations

Old substrates:  
remove non load-bearing paint remnants as well as non load-bearing old (paint) coats and subsequently clean the substrate (mechanically or using a suitable paint

## Technical data sheet

---

### StoColor Climasan

remover).

Plasters of mortar groups PG II + III:  
do not pre-treat solid, normally absorbent substrates before coating them. Apply a priming coat of StoPrim Plex onto large-pored, sandy, highly absorbent plasters.

Gypsum and pre-mixed plasters of mortar groups PG IV (not for mortar group IV d) + V:  
prime with StoPrim Plex.

Gypsum construction board:  
In case of absorbent boards apply a primer using StoPrim Plex.

Gypsum plasterboards:  
The gypsum surface including the sanded filler coat must be prepared for subsequent coating with StoPrim Plex.

In case of visible yellowing, apply an additional blocking coat of StoPrim Isol (see BFS data sheet 12). According to the gypsum plasterboard manufacturing industry data, prolonged exposure of gypsum surfaces to light can result in discolouration and subsequent colour variations of the final plaster layer and paint coats. To assess the potential risk, carry out a sample coat across several board areas, including the filled areas.

A hairline crack-bridging coat in accordance with VOB Part C, DIN 18363, Paragraph 3.2.1.2 is ensured through full-surface reinforcement, e.g. with StoTap Pro 100 S or StoTap Pro100 P.

Concrete:  
remove contaminants due to formwork oil, grease, and wax. Touch up gaps and shrinkage holes with StoLevell In Z. Prime with StoPrim Plex.

Porous concrete:  
Prime with StoPrim Plex and apply a smoothing filler.

Fair-faced brick masonry:  
prime with StoPrim Plex.

Wood, hardboard, particle board, and plywood boards:  
prepare waxed boards accordingly. Prime with StoPrim Plex or Sto-AquaPrime.

Load-bearing coats:  
rework matt, weakly absorbent coatings directly. Roughen glossy surfaces and lacquer coats and apply an intermediate coat of StoPrim Color. In case of highly absorbent old dispersion paint coats prime with StoPrim Plex.

Old lime and mineral paints and coatings:  
mechanically remove and dust off the surfaces as much as possible. Prime with StoPrim Plex.

Distemper paint coats:  
wash off thoroughly and treat the substrate accordingly.

Non-adherent wallpapers:

# Technical data sheet

## StoColor Climasan

remove all traces of the wallpaper. Wash off any remains of wallpaper paste and waste paper. Seal gaps with StoLevell In Fill and then treat them accordingly.

Mould-infested surfaces:  
remove mould layers through wet cleaning (e.g. brushing or scraping off).  
Subsequent treatment with StoPrim Fungal. Priming depends on the type and composition of the substrate.

Surfaces with nicotine, water, soot or grease stains:  
wash off the surfaces with water that has grease-dissolving household cleaner added to it, allow to fully dry and brush off. Apply an isolating priming coat of StoPrim Isol, a second priming coat may be required depending on the conditions.

When coating acrylic joints and waterproofing compounds, cracks and/or discolouration in the coat can occur due to the higher elasticity of the acrylic waterproofing compound. Due to the wide range of products on the market, carry out your own tests to assess the adhesive capacity.

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

**Application temperature**      Lowest substrate and air temperature for application: +5 °C

### Material preparation

Intermediate coat diluted with max. 3% water.  
Finish diluted with max. 3 % 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, in case of strong colour shades less water needs to be added 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	0.14 - 0.17	l/m <sup>2</sup>
in case of 2 application cycles	0.28 - 0.34	l/m <sup>2</sup>

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

### Coating procedure

Substrate coating:  
Depends on the type and condition of the substrate.

Intermediate coat:  
StoColor Climasan

Finishing coat:  
StoColor Climasan

# Technical data sheet

## StoColor Climasan

Depending on the colour shade and type of the substrate, further coats may be necessary.

**Application** paint, by roll, by airless spray-gun, only mist application is possible in the acoustic area

Apply the paint wet-on-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. 3% with water

**Drying, curing, ready for next coat** Fully dry and resistant after approx. 3 to 4 days.

High humidity and/or low temperatures prolong drying.

At +20°C temperature (air and substrate) and 65% relative air humidity, the next coat can be applied after approx. 6 hours.

**Cleaning the tools** Clean tools with water immediately after use.

**Indications, 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.

Unfavourable light conditions (glancing light):  
 On smooth surfaces with unfavourable light conditions (glancing light), we recommend using StoColor Rapid Ultramatt.

### Delivery

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

Filler material breakdown:  
 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 impair the quality and functionality of the product.

Colour accuracy:  
 It is not possible to give any warranty for uniform colour accuracy and freedom from stains due to chemical and physical setting processes and different conditions, especially with regard to:  
 a) uneven absorption behaviour of the substrate

# Technical data sheet

## StoColor Climasan

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

**Note:**

When tinting the material, the pigment paste adds small amounts of solvent to the product.

Areas that have been repaired, reworked and made good 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.

<b>Tintable</b>	Can be tinted by the user with max. 1 % StoTint Aqua.
-----------------	---

<b>Packaging</b>	bucket
------------------	--------

### Storage

<b>Storage conditions</b>	Store tightly sealed in frost-free conditions.
---------------------------	--

<b>Storage life</b>	The quality of the original package is guaranteed until stock by date. The batch number of the package indicates the end of the storage period. Batch number explanation: Number 1 = the last number of year, numbers 2 + 3 = a week I.e.: 5450013223 – storage life until the 45th week of the year 2015
---------------------	--

### Certificates/approvals

P-BWU03-I-16.5.153	StoTex Avantgarde, Signet, Classic / StoTap Pro and StoTap Infinity with paint coats - building material class B1 General building inspection test certificate
TÜV - Certificate No. TM-07/140714-2	StoColor Climasan (low-emission, physiologically harmless, and production monitored) Assessing emissions
Test report BBH-15/2005	StoColor Climasan Odour reducing properties
Photokatalytischen Aktivitäten	StoColor Climasan Assessing photocatalytic activities
Photokatalyse-Zertifikat	StoColor Climasan Certificate
Austrian environmental label	StoColor Climasan Testing according to PA no. VKI 695
StoAG - PB 10003394	StoColor Climasan - internal test Assessing resistance to surface disinfectants
Green Brand	StoColor Climasan / StoColor Sil In (ecological sustainability) Testing ecological sustainability

### Identification

<b>Product group</b>	Interior dispersion paint
----------------------	---------------------------

<b>Composition</b>	in accordance with VdL (German Paint and Printing Ink Association) guideline: Construction coating materials for buildings, polymer dispersion, titanium dioxide,
--------------------	--

## Technical data sheet

---

# StoColor Climasan

silicate fillers, Kaolin, water, additives, preservatives

---

<b>Safety</b>	Please observe safety data sheet
---------------	----------------------------------

### Special notes

The information or data 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. Nevertheless, users are responsible for establishing the suitability of the product for its intended use.

Applications other than those explicitly mentioned in this technical data sheet are only permissible after prior consultation. Where no approval is given, such applications are at the risk of the user. This applies particularly to combinations 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  
D - 79780 Stühlingen  
Phone: +49 7744 57-0  
Fax: +49 7744 57-2178  
Infoservice.export@sto.com  
www.sto.com