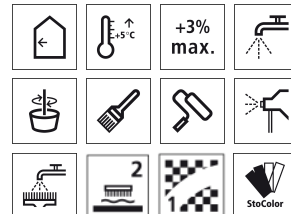


Technical Data Sheet

StoColor Climasan

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



Characteristics

Application

- interior
- for wall and ceiling surfaces
- 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-emission
- 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 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 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 purpose.

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 coats, such as blistering or cracks. Therefore do not apply to damp or soiled substrates.

Preparations

Old substrates:
remove non load-bearing paint remnants as well as non load-bearing old paints and coatings and subsequently clean (mechanically or by suitable paint remover).

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Plaster of mortar groups PG II + III:
coat solid, normally absorbent substrates without pre-treatment. Apply a priming coat of StoPrim Plex onto large-pored, sandy, highly absorbent renders.

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

Gypsum plasterboards: 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.

If there is visible yellowing, an additional blocking coat of StoPrim Isol must be applied (see BFS data sheet 12). According to the gypsum plasterboard manufacturing industry data, gypsum surfaces that have been exposed to light over a prolonged period can result in discolouration and hence to subsequent colour variations of the final render and paint coats. To estimate the possible risk, a sample coating is recommended over several board areas, including the filled areas.

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

Concrete:
remove contaminants due to formwork release oil, grease and wax by jet wash. Fill gaps and shrinkage holes with StoLevell In Z. Prime with StoPrim Plex.

Porous concrete:
prime with StoPrim Plex and smooth with smoothing filler.

Fair-faced brick masonry:
prime with StoPrim Plex.

Wood, hardboard, chipboard and plywood boards:
prepare waxed boards accordingly. Prime with StoPrim Plex or Sto-Aquagrund.

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

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

Distemper coatings:
wash off thoroughly and treat the substrate further accordingly.

Non-adherent wallpapers:
remove all traces. Wash off remains of wallpaper paste and waste paper. Seal gaps with StoLevell In Fill and then treat accordingly.

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

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

When coating acrylic joints and sealing compounds, cracks and/or discolouration in the coatings can occur due to the higher elasticity of the acrylic sealing compound. Due to the wide range of products on the market, carry out your own tests for assessing the adhesion in individual cases.

The coating structures listed and recommendations do not release the applicator from his own responsibility for substrate testing and assessment.

Application

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

Material preparation

Intermediate coating diluted with max. 3% water.
Top coat 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, 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 | 0.14 - 0.17 | l/m ² |
| for 2 application cycles | 0.28 - 0.34 | l/m ² |

The consumption of the material depends on the application method, substrate and consistency, amongst other factors. The stated consumption rate is only to be used as a guide. Where required, precise consumption values should be established on the respective project.

Coating procedure

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

Intermediate coating:
StoColor Climasan

Top coat:
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Depending on the colour shade selection and type of substrate, further coatings

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may be necessary.

Application

Painting, Rollers, By airless spray-gun, only mist application is possible in the acoustic area

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. 3% with water

Drying, curing, reworking time

Fully dry and cured after approx. 3 to 4 days.

When there is high humidity and/or low temperatures, the drying process will be delayed accordingly.

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 board-finishing render/ filler compounds made by gypsum plasterboard manufacturers can be particularly sensitive to humidity. This sensitivity can lead to blistering, swelling of the fillers, 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.

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

Delivery

Colour shade

White, limited tintability in accordance with the StoColor System

Filler break:
 When coated surfaces are exposed to mechanical stress it is possible that, due to the natural calibration grains 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:
 It is not possible to give any warranty for uniform colour accuracy and freedom from stains due to chemical and/or physical setting process and different substrate conditions, especially with:
 a) uneven absorption behaviour of the substrate
 b) different substrate moistures over the entire surface
 c) partially very different alkalinity/substances from the substrate.

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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, re-worked 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.

| | |
|---------------------------------|--|
| Tintable | Can be tinted by the user with max. 1 % StoTint Aqua. |
| Packaging | Pail |
| Storage | |
| Storage conditions | Store tightly sealed in frost-free conditions. |
| Storage life | The quality of the original package is guaranteed until stock by date. The stock by date can be deduced from the batch number of the package. 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 2011 |
| Certificates / approvals | |
| TÜV StoColor Climasan | Physiologically harmless Assessing emissions |
| Prüfbericht BBH-15/2005 | StoColor Climasan Odour reducing properties |
| Photokatalytischen Aktivitäten | StoColor Climasan Assessing photocatalytic activities |
| Photokatalyse-Zertifikat | StoColor Climasan Certificate |
| Österreichisches Umweltzeichen | StoColor Climasan Testing according to PA no. VKI 695 |
| M 35 120/82 | StoSilent Panel with StoSilent Superfine/StoColor Climasan Determining the sound absorption factor |
| StoAG - PB 10003394 | StoColor Climasan - internal test Assessing disinfectant resistance |
| Identification | |
| Product group | Interior dispersion paint |
| Composition | In accordance with VdL (German Paint and Printing Ink Association) guideline: Construction coating materials for buildings, Polymer dispersion, Titanium dioxide, Silicate fillers, Kaolin, Water, Additive, Preservative |
| Security | Please observe safety data sheet |

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Special information

The information or data serves to ensure the product's intended purpose 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 with Sto AG. Where no approval is given, such applications are at the risk of the user. 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 at www.sto.com.

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