

# Technical Data Sheet

## StoColor Opticryl Matt

Physiologically harmless matt acrylate paint, wet scrub resistance class 1 in accordance with EN 13300



### Characteristics

#### Use

- For interior use
- For structure-retaining and hard-wearing matt coatings on wall and ceiling surfaces
- Especially suited for StoTex decorative glass meshes

#### Properties

- Solvent and plasticiser free, with low emissions
- TÜV seal of approval – external supervision
- Free of fogging-active substances
- Resistant to surface disinfecting agent
- Suitable for food areas
- Very good hiding power
- Very good spreading properties
- Wet scrub resistance class 1, opacity (hiding power) class 2 according to EN 13300

#### Appearance

- Dead-matt according to EN 13300

### Technical Data

Criterion	Norm / Test prescript	Value/ Units	Information
Density	EN ISO 2811	1,4 - 1,6 g/cm <sup>3</sup>	
Spreading rate	EN 13300	7,5 m <sup>2</sup> /l	
Gloss	EN 13300	Dead-matt	
Wet scrub resistance	EN 13300	Class 1	
Opacity	EN 13300	Class 2	
Largest grain size	EN 13300	fine	

The values stated are average values. Due to the use of natural raw materials in our products, the actual value determined on an individual delivery may deviate slightly, without compromising product suitability.

### Substrate

#### Requirement

The substrate must be firm, dry, clean and load bearing as well as free of sinter layers, efflorescences and separating agents. Damp substrates and substrates that are not completely bound can lead to damage such as bubble formation or cracks in the subsequent coatings. Don't apply on damp or soiled substrates.

#### Preparation

Old substrates:  
Remove non load bearing existing coatings and clean surfaces (mechanically or with suitable stripping agent). For cracked substrates we recommend a whole-surface papering with StoTap Pro 100 S (painter's fleece) or StoTap Pro 100 P (pigmented painter's fleece).

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Plasters in mortar groups P II + III (mortar groups in acc. with German standard DIN 18550):

Firm, normal absorbent substrates should be coated without preliminary treatment. On coarsely porous, sanding, absorbent plasters, use a base coat. Prime with StoPrim Plex.

Gypsum and ready-mixed plasters in mortar groups P IV (except mortar group IV d) + V (mortar groups in acc. with German standard DIN 18550): Prime with StoPrim Plex.

Gypsum construction boards:

With absorbent boards, carry out a priming coat with StoPrim Plex.

Gypsum plasterboards:

The gypsum plasterboard surface including the sanded leveller should be prepared with StoPrim Plex for later coating.

With penetrating yellowing, an additional barrier coat of StoPrim Isol should be carried out (see German BFS Data Sheet 12).

According to the information of the manufacturing industry of gypsum plaster boards, due to solar irradiation on the surface of the gypsum plasterboard for an extended period, there may appear discoloration and therefore subsequently colour changes of the final render and paint coats. It is recommended to carry out a sampling area by coating several boards including the filled joints.

A hairline crack bridging coating is warranted by full-surface reinforcement, e.g. with StoTap Pro 100 S or StoTap Pro 100 P.

Concrete:

Remove soilings from forming oil, grease and wax with steam blasting. Small defects and blowholes should be repaired with StoLevell In Z. Prime with StoPrim Plex.

Aerated concrete:

Prime with StoPrim Plex and level smooth.

Fair faced brickwork:

Prime with StoPrim Plex.

Wood, wood fibre, particle and chipboard materials:

Prepare waxed boards appropriately. Prime with StoPrim Plex or Sto-Aquagrund.

Load-bearing coatings:

Matt, weakly absorbent coatings should be overcoated directly.

Gloss surfaces and lacquer coatings should be roughened. Intermediate coating with StoPrim Color. Prime with StoPrim Plex (only with strongly absorbent old dispersion coatings).

Old lime and mineral paint coats and coatings:

Remove mechanically as far as possible, dust surfaces, and prime with StoPrim Plex.

Lime paint coats:

Wash off thoroughly and treat further according to corresponding substrate type.

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**Non adhesive wallpapers:**

Remove without remainder. Wash off paste and paper remains. Close holes with StoLevell In Fill and treat further according to the substrate.

**Mould attacked surfaces:**

Remove mould coat with wet cleaning (e.g. brushing or scratching off). Subsequent treatment with StoPrim Fungal. Prime according to type and condition of substrate.

**Surfaces with nicotine, water, rust, or grease stains:**

Wash down surfaces with water, adding grease-removing household cleaner; allow to dry thoroughly and brush off. Apply isolating base coat with StoPrim Isol. Depending on the condition a second primer coat is recommended.

Overcoating of acrylic based joint sealants and sealing tapes may cause cracks and discoloration. Due to the wide range of products on the market, tests have to be carried out in each individual case to assess the adhesion.

The coating systems described above are not releasing the processor of his own examination and assessment of the substrate.

### Application

**Application temperature** Minimum substrate and air temperature: +5 °C

### Procedure

Intermediate coating: diluted by up to 5 % with clean water.  
Top coat: diluted by up to 5 % with clean water.

The consistency has to be set up with the least amount of water possible. Stir up well before application. For machine application, adjust the amount of added water according to the appropriate machine/pump type.. Intensive tints generally need less water for optimising the consistency of the material. Too much dilution can impair the application and characteristics.(e.g. hiding power, tint)

### Consumption

Type of application	Consumption approx.	
Per coat	0,13 - 0,15	l/m <sup>2</sup>
2 application cycles	0,26 - 0,30	l/m <sup>2</sup>

The material consumption is dependent on application, substrate and consistency. The stated consumption values can only serve for orientation. Precise consumption values should be determined on the project if required.

### Coating procedure

Base coat:  
Dependent on type and condition of the substrate.

Intermediate coating :  
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Top coat:  
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Depending on tint and type of the substrate, subsequent coatings may be necessary.

### Application (processing procedure)

By brush, roller and for airless spray application

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To avoid dry lines , areas must be applied wet-in-wet.

airless spray application:  
 nozzle:0,018" - 0,026"  
 pressure: 150 - 180 bar  
 nozzle angle: 50°  
 dilution: up to 5 % with clean water

### Drying, curing, time to subsequent coating

Thoroughly dried and mechanical resistant after approx. 3-4 days

In conditions of high air humidity and/or low temperature, drying will be delayed accordingly.

Over coating is possible after approx. 6 hours (at + 20 °C and 65 % relative humidity).

### Cleaning of tools

Clean with water immediately after use.

### Notes, recommendations, special tips, miscellaneous

Drying process:  
 The specified gypsum intermediate plasters of the manufacturing industry of gypsum plaster boards may show a special sensibility to humidity. This sensibility can cause bubble formation, swelling of the intermediate plaster and spalling. Therefore the German federal association "Bundesverband der Gips- und Gipsbauplattenindustrie e.V" recommends to enable a quickly drying process by ensuring sufficient ventilation an temperature (information sheet "Verspachtelung von Gipsplatten").

Information to the test report:  
 The certified surface disinfecting agents, listed in the test report of TÜV SÜD, may deviate from surface disinfecting agents available on the market at the moment. The availability has to be evaluated in individual cases.

### Supply Details

#### Colour tone

Available in white, aged white AW11/AW15, tintable according to the StoColor System

Calibration grain fraction:  
 During strong mechanical load it is possible that - with intensive colours - discoloration may occur. This is, due to the white natural moulding sand used by filler break or pigment abrasion of and/or used natural fillers, these may appear lighter. The product quality and functionality are not affected.

Tint accuracy:  
 Due to chemical and/or physical setting processes accompanied by different weather and building conditions, there is no guarantee for tint accuracy and stain resistance, especially if there is:  
 a. different absorption capacity of the substrate  
 b. different moisture of the substrate  
 c. partial high alkaline/ contents in the substrate

Note:  
 Tinted materials: Pigments will add some little quantities of solvent.

Stainings due to reparation or refinishing the surface are depending on many

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factors and are unavoidable if the original coating material is used (according to German information sheet "BFS-Merkblatt Nr. 25")

<b>Tint</b>	Tintable by up to 1 % StoTint Aqua
<b>Packaging</b>	Pail
<b>Storage</b>	
<b>Storage conditions</b>	Keep container tightly closed and store in frost free conditions.
<b>Storage life</b>	Best quality in the original packaging is guaranteed until expiry of the max. storage life. This can be determined from the batch no. on the packaging. Explanation of the batch no.: Digit 1 = final digit of the year; digits 2 + 3 = calendar week Example: 1450013223 – storage life to end of calendar week 45 in 2011.
<b>Certificates / Approvals</b>	
	TÜV StoColor Opticryl Matt    Examined for harmful substances Validation of emission behaviour
	TÜV StoColor Opticryl Matt    Disinfectants-resistant Validation of resistance to surface disinfecting agent
<b>Identification</b>	
<b>Product group</b>	Acrylate-Dispersion
<b>Composition</b>	According to VdL-policy ("Bautenanstrichmittel") polymer dispersion, titanium dioxide, silicate fillers, limestone, water, additives, preservatives.
<b>GISCODE</b>	M-DF01 dispersion paint, solvent free
<b>Health and safety</b>	For further information on handling, storage and disposal of the product, please refer to the current Material Safety Data Sheet, available on request for professional users.

### Special Notes

The Information and data on this technical data sheet serve to ensure a normal end use and are based on our knowledge and experience. They do not release the users from their individual responsibility for ensuring the suitability for use.

Uses, applications that are not clearly noted in this technical data sheet may only be used after consultation with Sto AG. Without this approval the deployment is at the user's own risk. This is especially the case for combinations with other products.

With the issue of new Technical Data Sheets all previous Technical Data Sheets become invalid.

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