Technical Data Sheet
StoColor Lotusan® G

Facade paint with Lotus-Effect® Technology, with encapsulated film protection

Characteristics

Area of application
- exterior
- for paint coats with reduced adhesion of dirt particles on mineral and organic substrates
- not suitable for horizontal or sloping surfaces that are exposed to weathering, e.g. joint areas in masonry

Properties
- texture-retaining
- very high CO₂ and 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 thanks to the Lotus-Effect and encapsulated film protection
- low-tension
- very good application properties

Appearance
- matt

Technical data

<table>
<thead>
<tr>
<th>Criterion</th>
<th>Standard / test specification</th>
<th>Value / Unit</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Density</td>
<td>EN ISO 2811</td>
<td>1.4 - 1.6 g/cm³</td>
<td></td>
</tr>
<tr>
<td>Diffusion-equivalent air layer thickness</td>
<td>EN 1062-3</td>
<td>0.01 m</td>
<td>V1 high</td>
</tr>
<tr>
<td>Water permeability rate w</td>
<td>EN 1062-1</td>
<td>&lt; 0.05 kg/(m²h⁰.⁵)</td>
<td>W3 low</td>
</tr>
<tr>
<td>Water vapour diffusion-equivalent air layer thickness μ</td>
<td>EN ISO 7783</td>
<td>50</td>
<td>average value</td>
</tr>
<tr>
<td>Gloss</td>
<td>EN 1062-1</td>
<td>Matt</td>
<td>G3</td>
</tr>
<tr>
<td>Dry layer thickness</td>
<td>EN 1062-1</td>
<td>160 µm</td>
<td>E3 &gt; 100; ≤ 200</td>
</tr>
<tr>
<td>Grain size</td>
<td>EN 1062-1</td>
<td>&lt; 100 µm</td>
<td>S1 fine</td>
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</table>
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 the following coatings, e.g. bubble formation, cracks.

**Preparations**
Check whether existing coatings are load-bearing. Remove any non load-bearing or structurally weak coatings. Facade surfaces affected by an algae and fungal attack must be carefully cleaned before overcoating. Depending on the level of infestation, disinfect the dry surfaces 1 - 2 times with StoPrim Fungal.

**Application**

**Application temperature**
Lowest temperature of substrate and air: +5 °C
Highest temperature of substrate and air: +30 °C

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

**Material preparation**
Usage as an intermediate coat: dilute with max. 5 % water.
Usage as a finish: dilute with max. 5 % water.

Dilute with as little water as possible to achieve application consistency. Stir the material well before application. If applying the material by machine or pump, adjust the application consistency accordingly. Use only very little water to dilute intensely tinted material. Too much dilution impairs the properties of the material, e.g. with regard to application, hiding power, and colour shade intensity.

**Consumption**
<table>
<thead>
<tr>
<th>Type of application</th>
<th>Approx. consumption</th>
</tr>
</thead>
<tbody>
<tr>
<td>per paint coat</td>
<td>0.18 - 0.20 l/m²</td>
</tr>
<tr>
<td>for 2 coats</td>
<td>0.36 - 0.40 l/m²</td>
</tr>
</tbody>
</table>

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**
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. Sto-HydroGrund

Only a double paint coat gives an optimum water-repellent effect

Intermediate coat:
StoColor Lotusan® G

Finish:
StoColor Lotusan® G

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 sprayer

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.

Drying, curing, ready for next coat
Higher humidity, lower temperatures, and low air exchange prolong the curing and drying times.

During unfavourable weather conditions, apply suitable protective measures (e.g. protection against rain) to any facade surface which is to be treated or which has been freshly completed.

At +20 °C temperature (air and substrate) and 65 % relative air humidity: over-coatable after approx. 8 hours.

Cleaning the tools
Clean tools with water immediately after use.

Notes, recommendations, special information, miscellaneous
The water-repellent effect can vary in strength depending on weathering and colour shade.

Delivery
Colour shade
white, limited tintability in accordance with the StoColor System

Tinted material:
Before application, check that the material corresponds to the colour shade ordered. Slight colour shade deviations compared with previous deliveries are
possible. Only use deliveries with the same batch number on one surface.
Mix different batches before application.

Colour stability:
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.

Extender material breakdown:
Mechanical stress can damage the extenders in the material and lead to lighter
marks. This does not influence the product quality or functionality.

Colour accuracy:
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
b) different levels of substrate moisture over an area
c) partly very different alkalinity and/or substances in the substrate
d) direct sunlight with sharp, clear shadows on a still-damp coating

Washout of processing aids:
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. This does not influence the product quality. The effects disappear
when the surface is exposed to further weathering.

### Storage

<table>
<thead>
<tr>
<th>Storage conditions</th>
<th>Store tightly sealed in frost-free conditions. Protect from heat and direct sunlight.</th>
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<tr>
<th>Storage life</th>
<th>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.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Explanation of batch no.:</td>
<td>digit 1 = last digit of the year, digits 2 + 3 = calendar week</td>
</tr>
<tr>
<td>Example: 1450013223</td>
<td>storage life ends week 45 in 2021</td>
</tr>
</tbody>
</table>

| Certificates/approvals | ETA-09/0288 | StoTherm Classic® 5 (MW/MW-L and StoArmat Classic plus/StoArmat Classic plus QS) European Technical Assessment |
|------------------------|-------------|----------------------------------------------------------------************************************************************************************************************************************|
|                        | ETA-03/0037 | StoTherm Vario 5 (EPS and StoLevell Beta) European Technical Assessment |
|                        | ETA-13/0581 | StoTherm Mineral 8 (timber frame construction - MW-L and StoLevell Uni/StoLevell Novo, fixing: bonded) European Technical Assessment |
|                        | ETA-09/0267 | StoTherm Resol European Technical Assessment |

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Technical Data Sheet
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Test report P 5086-4
Lotusan® - carbon dioxide permeability
Test of carbon dioxide permeability

Identification

<table>
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<th>Product group</th>
<th>Facade paint</th>
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Composition

In accordance with the VdL directive (German Paint and Printing Ink Association) on coating materials for buildings
polymer dispersion
titanium dioxide
silicate extenders
organic extenders
water
glycol ether
alcohols
hydrophobic agents
thickener
anti-foaming agents
dispersing agent
coating protection agent based on isoproturon/terbutryn
coating protection agent based on 3-lodo-2-propynyl butylcarbamate (IPBC)
storage protection agent based on BIT/ZPT

Safety

This product is subject to compulsory labelling in accordance with the current EU regulation.
Observe the Safety Data Sheet!
Safety instructions refer to the ready-to-use, unapplied product.

Harmful to aquatic life with long lasting effects. Avoid release to the environment.
Contents/container to be disposed of through approved disposal contractor or taken to municipal collection point.

EUH208

Contains 1,2-benzisothiazol-3(2H)-one, reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one[EC no.247-500-7] and 2-methyl-2H-isothiazol-3-one[EC no.220-239-6] (3:1). May produce an allergic reaction.

These are preservatives.
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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