Technical Data Sheet
StoColor Silco QS

Facade paint on silicone resin base with rainproofing properties

Characteristics

Application
• Exterior
• onto mineral and organic, non-elastic substrates
• Especially in damp and cold weather conditions (from +1°C up to max. +15°C)
• Not suitable for horizontal or sloping surfaces subject to weathering

Properties
• With early rainproofing properties (QuickSet technology)
• texture-retaining
• High-quality, genuine silicone resin paint (approx. 50% of the total binding agent proportion)
• very good hiding power
• Very highly water-repellent
• very high CO₂ and water vapour permeability
• very low susceptibility to soiling
• very low-stress drying behaviour
• Additional film conservation possible

Appearance
• matt

Information/notes
• With film conservation to ward off algae and/or fungal attack

Technical data

<table>
<thead>
<tr>
<th>Criterion</th>
<th>Standard / test regulation</th>
<th>Value</th>
<th>Unit</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Density</td>
<td>EN ISO 2811</td>
<td>1.5</td>
<td>g/cm³</td>
<td></td>
</tr>
<tr>
<td>Diffusion-equivalent air layer thickness</td>
<td>EN ISO 7783-2</td>
<td>0.05</td>
<td>m</td>
<td>V1 high</td>
</tr>
<tr>
<td>Water permeability rate w</td>
<td>EN 1062 -3</td>
<td>0.05</td>
<td>kg/(m²*hr⁰,⁵)</td>
<td>W3 low</td>
</tr>
<tr>
<td>Water vapour diffusion resistance factor μ</td>
<td>EN ISO 7783-2</td>
<td>420</td>
<td></td>
<td>average value</td>
</tr>
<tr>
<td>Gloss</td>
<td>EN 1062-1</td>
<td>matt</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dry layer thickness</td>
<td>EN 1062-1</td>
<td>120</td>
<td>μm</td>
<td>E3 &gt; 100; ≤ 200</td>
</tr>
<tr>
<td>Grain size</td>
<td>EN 1062-1</td>
<td>&lt; 100</td>
<td>μm</td>
<td>S1 fine</td>
</tr>
</tbody>
</table>

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
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Requirements
The substrate must be frost-free, 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.

Preparations
Check existing coatings for their load-bearing capacity. Remove any non load-bearing or structurally weak coatings.

Application

| Application temperature          | Lowest temperature of substrate/air: +1°C
|                                | Highest temperature of substrate/air: +15°C

The optimum application temperature is between +1°C and +10°C. Installation above +10°C up to approx. 15°C is possible.

Material preparation
Intermediate coating diluted with approx. 5% to max. 10% water.
Top coat diluted with max. 5% 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

<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>

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
Priming coat:
Depends on the type and condition of the substrate.

Intermediate coating:
StoColor Silco QS

Top coat:
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Application
Painting, Rollers, By airless spray-gun

Drying, curing, reworking time
When there are alkaline influences from the substrate, very high relative humidity and/or low temperatures, the drying process will be delayed accordingly.

During unfavourable weather conditions it is imperative that suitable protective measures (e.g. protection against rain) be applied to the work in progress and
freshly completed facades.

Under favourable conditions (+ 15°C air and substrate temperature and 75% relative humidity), reworking is only possible after 24 hours at the earliest.
Under unfavourable conditions, the length of time until reworking is possible can also take several days.

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

### Delivery
**Colour shade**
White, Limited tintability in accordance with the StoColor System

**Colour stability:**
The effects of the weather, humidity, UV irradiation and deposits can lead to changes in the coating surface over time. This can result in colour changes. This is a dynamic process which varies according to climate conditions and the degree of exposure. The respective current national regulations, data sheets, etc. apply.

**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 curing processes and fluctuations in the weather and different substrate conditions, especially in the case of: a) uneven absorption behaviour of the substrate b) different substrate moistures over the entire the surface c) partially very different alkalinity/substances from the substrate d) direct solar radiation with sharply delineated shadowing on the freshly applied coating.

**Emulsifier washouts:**
Due to conditions which delay drying, surface effects (streaking) can occur on coatings which are not yet fully-dried during initial stages of weathering caused by dew, mist, water spray or rain because of water-soluble additives. Depending on the colour intensity, this effect can occur to varying degrees. This does not constitute an impairment of product quality. These effects are normally removed automatically on further weathering.

### Tintable
Can be tinted by the user with max. 1% StoTint Aqua.

### Special options possible
The product is equipped at the factory with adapted film conservation against algae and/or fungal attack, it is possible to add agents. A preventive and delaying effect is achieved. However, it is not possible to guarantee that there will be no algae and/or fungal attack in the long term.

### Packaging
Pail

### Storage
**Storage conditions**
Store tightly sealed in frost-free conditions. Protect against heat and direct
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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

<table>
<thead>
<tr>
<th>Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETA-06/0127</td>
<td>StoTherm Mineral 2 (MW/MW-L and StoLevell Uni)</td>
</tr>
<tr>
<td></td>
<td>European technical approval</td>
</tr>
</tbody>
</table>

Identification

| Product group | Facade paint |

Composition

In accordance with VdL (German Paint and Printing Ink Association) guideline:
Construction coating materials for buildings, Silicone resin emulsion, Polymer dispersion, Titanium dioxide, Calcium carbonate, Silicate fillers, Mineral filler material, Water, Glycol ether, Additive, Preservative

Security

This product is a hazardous material.
Please observe safety data sheet

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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