Organic finishing render to achieve a stippled texture

Characteristics

Area of application

- exterior
- on masonry, insulated and rainscreen cladding facades with a base coat
- on mineral and organic substrates
- not suitable for horizontal or sloping surfaces that are exposed to weathering

Properties

- render in accordance with EN 15824
- maximum reliability with regard to application, value retention, colour shade, and stability
- A2-s1, d0 in accordance with EN 13501-1
- with encapsulated film protection
- shockproof and highly resistant to cracks and hail when combined with StoTherm Classic®
- highly permeable to water vapour
- highly water-repellent
- weather-resistant
- water-dilutable
- with high-quality marble grains made of natural deposits

Appearance

- stippled render texture

Information/notes

- see Services/Silo overview in the product guide or price list
- if the selected colour shade has a light reflectance value $\geq 15$, no additional finish is necessary

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>1.7 - 1.9 g/cm³</td>
<td></td>
</tr>
<tr>
<td>Diffusion-equivalent air layer thickness</td>
<td>EN ISO 7783</td>
<td>0.18 - 0.19 m</td>
<td>V2 medium, determined range for K 2</td>
</tr>
</tbody>
</table>
### Technical Data Sheet

**Stolit® K**

<table>
<thead>
<tr>
<th>Property</th>
<th>Standard</th>
<th>Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water permeability rate w</td>
<td>EN 1062-1</td>
<td>&lt; 0.05 kg/(m²-h⁰.⁵) W3 low</td>
</tr>
<tr>
<td>Water vapour diffusion-equivalent air layer thickness µ</td>
<td>EN ISO 7783</td>
<td>90 - 100</td>
</tr>
<tr>
<td>Reaction to fire (class)</td>
<td>EN 13501-1</td>
<td>A2-s1, d0</td>
</tr>
<tr>
<td>Thermal conductivity</td>
<td>DIN 4108</td>
<td>0.7 W/(m²K)</td>
</tr>
</tbody>
</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.

If the finishing render has a grain size < 2.0 mm, it may be necessary to take additional measures to level the substrate.

#### Preparations

Check whether existing coatings are load-bearing. Remove any non load-bearing or structurally weak coatings.

### Application

#### Application conditions

Do not apply the material in intense, direct sunlight or onto heated substrates. Avoid strong air movements during application and during the first phase of drying, otherwise increased shrinkage cracks and pores may develop in the coating.

#### Application temperature

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

#### Material preparation

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. Do not dilute intensely tinted material, or only use very little water. 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</th>
<th>Approx. consumption</th>
</tr>
</thead>
<tbody>
<tr>
<td>K 1.0</td>
<td>1.80 kg/m²</td>
</tr>
<tr>
<td>K 1.5</td>
<td>2.30 kg/m²</td>
</tr>
<tr>
<td>K 2.0</td>
<td>3.00 kg/m²</td>
</tr>
<tr>
<td>K 3.0</td>
<td>4.30 kg/m²</td>
</tr>
<tr>
<td>K 6.0</td>
<td>6.00 kg/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.

**Intermediate coat on load-bearing, mineral substrates:**
If using on a mineral substrate, we recommend using an absorbency-equalising and adhesion-promoting intermediate coat. Note: If intermediate coats are omitted, this can impair the application properties and the product's appearance. Products: Sto-Primer or StoPrep QS (alkalinity-isolating)

**Intermediate coat on load-bearing, organic substrates:**
Recommendation: If the colour shade of the finishing render differs significantly from the colour shade of the substrate, apply an intermediate coat that aligns the colour shades. If applying a finishing render with a rilled texture, always apply an intermediate coat that has a similar colour shade. Products: Sto-Primer or StoPrep QS (alkalinity-isolating)

**Application**

manually, by machine

As a rule, it is necessary to manually rework the freshly applied finishing render in order to achieve the desired texture and functionality.

Use a rust-free steel trowel to trowel off the product evenly to grain size. Texture the surface with a hard plastic trowel or a PU plasterer's float.

If using a finishing render ≥ grain size 3.0, it can be textured with a wooden float.

The product can be applied with a hopper gun or commonly-available fine render sprayers.

The application method, tools, and substrate have a significant impact on the result. The tools mentioned are recommendations only.

**Drying, curing, ready for next coat**

The product dries physically, in that water evaporates. Higher layer thicknesses (> 2 mm), higher substrate moisture and humidity, condensation, low temperatures, and low air exchange can prolong the drying time depending on the project.

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 drying conditions of approx. +20 °C air and substrate temperature, 65 % relative humidity, and depending on the subsequent coating (diffusion-equivalent air layer thickness), the product is over-coatable after 24 hours at the earliest.

**Cleaning the tools**

Clean tools with water immediately after use.

**Delivery**

**Colour shade**

white, tintable in accordance with the StoColor System

Colour shades with lower light reflectance values must be assessed and approved for the relevant system on a project-specific basis by the system manufacturer.

Colour stability:

Weathering, intensity of UV radiation, and moisture penetration change the surface over time. Visible changes in colour shade are possible.

This change process is influenced by material and project conditions.

Recommendation: A build-up of additional paint coats improves the colour stability of intense and/or very dark colour shades.

Texturing grain:

Natural white marble types are used as texturing grain. The natural graining of the marble can become partially visible and appear as darker texture grain in the finishing render.

With light clear (and especially clear yellow) colour shades, the colour of the texturing grain can shine through the finishing render across an area. In very rare cases, marble grain can cause isolated markings due to natural ingredients, e.g. pyrite.

Both effects are due to the basic appearance of a marble-filled finishing render and attest to the natural properties of the raw materials used. This is an inherent property.

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.
## Technical Data Sheet

### Stolit® K

<table>
<thead>
<tr>
<th>Tintable</th>
<th>Possible to tint with max. 1 % StoTint Aqua.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Possible special options</td>
<td>There are no special settings for this product.</td>
</tr>
<tr>
<td>Packaging</td>
<td>pail</td>
</tr>
</tbody>
</table>

### Storage

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

### Certificates/approvals

<table>
<thead>
<tr>
<th>Certificate</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETA-05/0098</td>
<td>StoTherm Classic® 2 (EPS and StoLevell Classic/StoLevell Classic QS/Sto-RFP) European Technical Assessment</td>
</tr>
<tr>
<td>ETA-09/0058</td>
<td>StoTherm Classic® 5 (EPS and StoArmat Classic plus/StoArmat Classic plus QS) European Technical Assessment</td>
</tr>
<tr>
<td>ETA-09/0266</td>
<td>StoTherm Classic® 8 (EPS and StoArmat Classic/Classic plus) European Technical Approval</td>
</tr>
<tr>
<td>ETA-07/0088</td>
<td>StoTherm Classic® 2 (MW/MW-L and StoLevell Classic) European Technical Assessment</td>
</tr>
<tr>
<td>ETA-09/0288</td>
<td>StoTherm Classic® 5 (MW/MW-L and StoArmat Classic plus/StoArmat Classic plus QS) European Technical Assessment</td>
</tr>
<tr>
<td>ETA-18/0582</td>
<td>StoTherm Classic® 8 (MW/MW-L and StoArmat Classic S1/StoLevell Classic + QS/Sto-RFP + QS/StoPrefa Armat) European Technical Assessment</td>
</tr>
<tr>
<td>ETA-12/0533</td>
<td>StoTherm Classic® 10 (MW/MW-L and StoArmat Classic S1) European Technical Assessment</td>
</tr>
<tr>
<td>ETA-05/0130</td>
<td>StoTherm Vario 1 (EPS and StoLevell Uni) European Technical Assessment</td>
</tr>
<tr>
<td>ETA-06/0045</td>
<td>StoTherm Vario 3 (EPS and StoLevell Novo) European Technical Assessment</td>
</tr>
<tr>
<td>ETA-06/0107</td>
<td>StoTherm Vario 4 (EPS and StoLevell Duo) European Technical Assessment</td>
</tr>
<tr>
<td>ETA-03/0037</td>
<td>StoTherm Vario 5 (EPS and StoLevell Beta) European Technical Assessment</td>
</tr>
<tr>
<td>ETA-12/0561</td>
<td>StoTherm Vario 7 (EPS and StoLevell FT) European Technical Assessment</td>
</tr>
<tr>
<td>ETA-09/0231</td>
<td>StoTherm Mineral 1 (MW/MW-L and StoLevell Uni) European Technical Assessment</td>
</tr>
</tbody>
</table>
Technical Data Sheet
Stolit® K

Identification
Product group  Render

Composition
In accordance with the VdL directive (German Paint and Printing Ink Association) on coating materials for buildings
polymer dispersion
titanium dioxide
mineral extenders
aluminium hydroxide
silicate extenders
organic extenders
water
aliphatics
glycol ether
hydrophobic agents
dispersing agent
thickener
wetting agents
coating protection agent based on OIT / diuron
storage protection agent based on CIT/MIT 3:1
storage protection agent based on BIT/ZPT
## Technical Data Sheet

### Stolit® K

#### Safety

Observe the Safety Data Sheet!
Safety instructions refer to the ready-to-use, unapplied product.

**EUH210**

Safety data sheet available on request.

**EUH208**

Contains 1,2-benzisothiazol-3(2H)-one, 2-octyl-2H-isothiazol-3-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.

### 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.

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