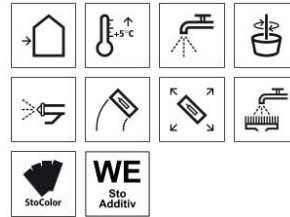


Technical Data Sheet

Stolit® K

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 weather conditions

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 texture

Information/notes

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

Technical data

Criterion	Standard / test specification	Value/ Unit	Notes
Density	EN ISO 2811	1.7 - 1.9 g/cm ³	
Diffusion-equivalent air layer thickness	EN ISO 7783	0.18 - 0.19 m	V2 medium, determined range for K 2
Water permeability rate w	EN 1062-1	< 0.05 kg/(m ² h ^{0.5})	W3 low

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Water vapour diffusion-equivalent air layer thickness μ	EN ISO 7783	90 - 100	V2 medium
Reaction to fire	EN 13501-1	A2-s1, d0	
Thermal conductivity	DIN 4108	0.7 W/(m ² K)	

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 subsequent 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

Preparing the material:

- Depending on weather and substrate conditions, use 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.
- 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, colour shade intensity.

Consumption

Type	Approx. consumption	
K 1.0	1.80	kg/m ²
K 1.5	2.30	kg/m ²
K 2.0	3.00	kg/m ²
K 3.0	4.30	kg/m ²

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K 6.0	6.00	kg/m ²
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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 Isol Q (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 Isol Q (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 \geq 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 the work in progress and freshly completed facades.

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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.

Batch and colour shade check:

Before application, check the material to ensure it matches the colour shade that has been ordered.

Different batches and/or previous deliveries may show visible differences in the colour shade and texture. Apply material with the same batch number to one surface. Mix different batches before application if they are going to be used on one surface.

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

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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.

Tintable Possible to tint with max. 1 % StoTint Aqua.

Possible special options There are no special settings for this product.

Packaging Pail

Storage

Storage conditions Store in tightly sealed original container in cool and frost-free conditions. Protect from direct sunlight.

Storage life Provided the storage conditions are adhered to, the quality of the product in its unopened, original container is guaranteed until the maximum storage life has expired. The storage life can be deduced from the batch number of the container.
Batch number explanation:
Number 1 = the last number of year, numbers 2 + 3 = a calendar week
example: 6450013223 – storage life until week 45 of 2026
Use promptly after opening. Contamination, e.g. due to a soiled tool, can shorten the shelf-life.

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

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Thickener
 wetting agents
 Coating protection agent based on terbutryn
 coating protection agent based on 3-Iodo-2-propynyl butylcarbamate (IPBC)
 Storage protection agent based on BIT/MIT (1:1)

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.

May cause an allergic skin reaction. Harmful to aquatic life with long lasting effects. Avoid breathing vapours. Wear protective gloves. Avoid release to the environment. If skin irritation or rash occurs: Get medical advice/ attention. Take off contaminated clothing and wash it before reuse. Contents/container to be disposed of through approved disposal contractor or taken to municipal collection point.

EUH211

Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

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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