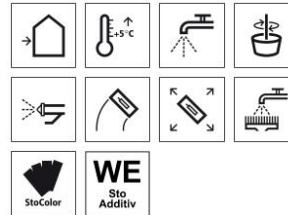


Technical Data Sheet

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 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 ≥ 15 , no additional finish 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

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Water permeability rate w	EN 1062-1	< 0.05 kg/(m ² h ^{0.5})	W3 low
Water vapour diffusion-equivalent air layer thickness μ	EN ISO 7783	90 - 100	V2 medium
Reaction to fire (class)	EN 13501-1	A2-s1, d0	
Thermal conductivity	DIN 4108	0.7 W/(m*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 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

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
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 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 \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 any facade surface which is to be treated or which has been freshly completed.

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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.

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.

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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 tightly sealed in frost-free conditions. Protect from heat and direct sunlight.
Storage life	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 45in 2021

Certificates/approvals

ETA-05/0098	StoTherm Classic [®] 2 (EPS and StoLevell Classic/StoLevell Classic QS/Sto-RFP) European Technical Assessment
ETA-09/0058	StoTherm Classic [®] 5 (EPS and StoArmat Classic plus/StoArmat Classic plus QS) European Technical Assessment
ETA-09/0266	StoTherm Classic [®] 8 (EPS and StoArmat Classic/Classic plus) European Technical Approval
ETA-07/0088	StoTherm Classic [®] 2 (MW/MW-L and StoLevell Classic) European Technical Assessment
ETA-09/0288	StoTherm Classic [®] 5 (MW/MW-L and StoArmat Classic plus/StoArmat Classic plus QS) European Technical Assessment
ETA-18/0582	StoTherm Classic [®] 8 (MW/MW-L and StoArmat Classic S1/StoLevell Classic + QS/Sto-RFP + QS/StoPrefa Armat) European Technical Assessment
ETA-12/0533	StoTherm Classic [®] 10 (MW/MW-L and StoArmat Classic S1) European Technical Assessment
ETA-05/0130	StoTherm Vario 1 (EPS and StoLevell Uni) European Technical Assessment
ETA-06/0045	StoTherm Vario 3 (EPS and StoLevell Novo) European Technical Assessment
ETA-06/0107	StoTherm Vario 4 (EPS and StoLevell Duo) European Technical Assessment
ETA-03/0037	StoTherm Vario 5 (EPS and StoLevell Beta) European Technical Assessment
ETA-12/0561	StoTherm Vario 7 (EPS and StoLevell FT) European Technical Assessment
ETA-19/0443	StoTherm Vario 8 (timber frame construction - EPS and StoLevell Duo/StoLevell Duo plus/StoLevell Uni/StoLevell

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	Novo/StoLevell FT) European Technical Assessment
ETA-09/0231	StoTherm Mineral 1 (MW/MW-L and StoLevell Uni) European Technical Assessment
ETA-07/0027	StoTherm Mineral 3 (MW/MW-L and StoLevell Novo) European Technical Assessment
ETA-13/0901	StoTherm Mineral 5 (MW/MW-L and StoLevell FT) 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-08/0303	StoTherm Wood 1 (timber frame construction - soft wood fibre and StoLevell Uni/StoLevell FT/StoLevell Novo, fixing: anchor-fixed) European Technical Assessment
ETA-09/0304	StoTherm Wood 2 (timber frame construction - soft wood fibre and StoLevell Uni/StoLevell FT, anchor/adhesive) European Technical Assessment
ETA-06/0197	StoTherm Cell European Technical Assessment
ETA-09/0267	StoTherm Resol European Technical Assessment
ETA-13/0580	StoTherm Resol Plus European Technical Approval
ETA-17/0041	StoTherm PIR European Technical Assessment
ETA-17/0406	StoVentec R European Technical Assessment

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 OIT / diuron
 storage protection agent based on CIT/MIT 3:1
 storage protection agent based on BIT/ZPT

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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