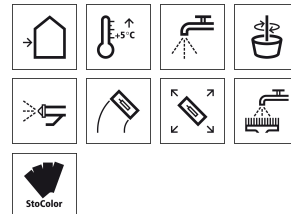


# Technical Data Sheet

## Stolit K

Organic finishing render with stippled texture



### Characteristics

- Application**
- Exterior
  - On to organic and mineral substrates
  - Not suitable for horizontal or sloping surfaces subject to weathering

- Properties**
- Traditional multi-purpose product for facade render
  - Excellent workmanship, quality policy, colour shade and product stability management
  - Highly water vapour permeable
  - Highly water-repellent
  - Weather-resistant
  - Shockproof and highly resistant to cracks and hail, when combined with StoTherm Classic

- Appearance**
- Stippled render texture

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

### Technical data

Criterion	Standard / test regulation	Value/ Unit	Notes
Density	EN ISO 2811	1.7 - 1.9 g/cm <sup>3</sup>	
Diffusion-equivalent air layer thickness	EN ISO 7783-2	0.18 - 0.19 m	V2 medium, Determined range for grain size (K) 2
Water permeability rate w	EN 1062 -3	< 0.05 kg/(m <sup>2</sup> *h <sup>0.5</sup> )	W3 low
Water vapour diffusion resistance factor μ	EN ISO 7783-2	90 - 100	V2 medium
Fire behaviour (class)	EN 13501-1	A2-s1, d0	Non-combustible
Thermal conductivity	DIN 4108	0,7 W/(m*K)	

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

- Requirements**
- The substrate must be 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.

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In the case of finishing render grain sizes under grain 2.0, the substrate evenness of the planned finer surface finish should be adapted, additional substrate levelling measures may possibly be necessary.

**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: +5°C

**Material preparation** 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	Application		Approx. consumption	
	K 1.0		1.80	kg/m <sup>2</sup>
	K 1.5		2.30	kg/m <sup>2</sup>
	K 2.0		3.00	kg/m <sup>2</sup>
	K 3.0		4.30	kg/m <sup>2</sup>
	K 6.0		6.00	kg/m <sup>2</sup>

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:  
Sto-Primer, adapt the colour shade to the top coat.

Top coat:  
Stolit K

**Application** Manually, by machine

Spray application only is generally possible or production of the finishing render in the spraying method. As a rule, manual reworking of the finishing render is necessary in order to achieve the desired appearance/texture.

Using a rust-free steel trowel, apply the product evenly to grain size. Texturing is carried out with a plastic trowel or a PU plasterer's float.

The 3.0 mm grain size can be textured with a timber float.

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The product can be applied with the hopper gun or commonly available render spray machines for fine textured render.

The end result depends a lot on the application method, the installation tools used for application, and the substrate. The tools mentioned are recommendations only.

**Drying, curing, reworking time** The product physically dries through evaporation of the water. Complete through drying is achieved after approx. 14 days. Unfavourable conditions delay drying.

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.

Successive coats may be applied after 24 hours when the air and foundation/base temperature is of about +20°C and the relative humidity is of 65%.

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

### Delivery

#### Colour shade

White, tintable in accordance with the StoColor System

Where the coating is applied onto the StoTherm Vario and StoTherm Wood EWI systems, the lightness value of the colour shade should generally not be less than 20%. StoTherm Classic has a minimum lightness value of 15%. Lower colour shade lightness values in the respective system must be assessed separately and on a project-related basis by the system manufacturer

#### Colour stability:

Due to general weathering, particularly the intensity of UV irradiation in connection with humidity effects change the surface of coatings over the course of time. Visible colour changes can be the result.

At the same time, it is a process which is influenced by material and project conditions. Hence, it is state-of-the-art technology to improve the colour stability for intense and/or very dark colour shades through an additional paint system.

#### Black Grain:

The sands used in Sto-Finishing Renders are natural products that are distinguishable as slightly darker sand or texturing grains. This is not a quality defect but a minimal impairment in its optical appearance. It reflects the basic natural character and has the natural properties of the raw materials used.

#### 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

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- 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.

<b>Tintable</b>	Can be tinted by the user with max. 1% StoTint Aqua.
<b>Special options possible</b>	The product is equipped at the factory with adapted film conservation against algae and fungal attack, it is not 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.
<b>Packaging</b>	Pail
<b>Storage</b>	
<b>Storage conditions</b>	Store tightly sealed in frost-free conditions. Protect against heat and direct sunlight.
<b>Storage life</b>	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
<b>Certificates / approvals</b>	
ETA-03/0027	StoTherm Classic 1 (EPS and StoArmat Classic) European technical approval
ETA-07/0156	StoTherm Classic 1 (MW/MW-L and StoArmat Classic) European technical approval
ETA-05/0098	StoTherm Classic 2 (EPS and StoLevell Classic) European technical approval
ETA-07/0088	StoTherm Classic 2 (MW/MW-L and StoLevell Classic) European technical approval
ETA-06/0004	StoTherm Classic 3 (EPS and Sto reinforced cement) European technical approval
ETA-09/0058	StoTherm Classic 5 (EPS and StoArmat Classic plus) European technical approval
ETA-09/0288	StoTherm Classic 5 MW/MW-L (StoArmat Classic plus) European technical approval
ETA-06/0003	StoTherm Classic QS 1 (EPS and StoArmat Classic QS) European technical approval
ETA-06/0148	StoTherm Classic QS 2 (EPS and StoLevell Classic QS) European technical approval
ETA-05/0130	StoTherm Vario 1 (EPS and StoLevell Uni)

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	European technical approval
ETA-06/0045	StoTherm Vario 3 (EPS and StoLevell Novo) European technical approval
ETA-06/0107	StoTherm Vario 4 (EPS and StoLevell Duo) European technical approval
ETA-03/0037	StoTherm Vario 5 (EPS and StoLevell Beta) European technical approval
ETA-09/0231	StoTherm Mineral 1 (MW/MW-L and StoLevell Uni) European technical approval
ETA-07/0027	StoTherm Mineral 3 (MW/MW-L and StoLevell Novo) European technical approval
ETA-04/0075	StoTherm Vario S35 European technical approval
ETA-06/0197	StoTherm Cell (A2) European technical approval
ETA-08/0303	StoTherm Wood 1 (HWF and StoLevell Uni, dowel/bracket) European technical approval
ETA-09/030	StoTherm Wood 2 (HWF and StoLevell Uni) European technical approval
ETA-09/0267	StoTherm Resol European technical approval
Z-33.41-116	StoTherm Classic / Vario, bonded on solid substrates National technical approval
Z-33.42-129	StoTherm Classic / Vario / Mineral, rail fixing National technical approval
Z-33.43-61	StoTherm Classic / Vario / Mineral, bonded and dowelled National technical approval
Z-33.43-66	StoTherm Cell National technical approval
Z-33.43-925	StoTherm Wood for solid construction substrates National technical approval
Z-33.43-1182	StoTherm Resol, glued and dowelled National technical approval
Z-33.44-134	StoTherm Mineral L / Classic L National technical approval
Z-33.47-659	StoTherm Wood in timber frame construction National technical approval
Z-33.47-811	StoTherm Classic / Miscellaneous / Classic L / Mineral L, glued for wooden structures National technical approval
Z-33.49-742	Double-walling solution for pre-existing thermal insulation National technical approval
Z-33.2-124	StoReno plaster and EWIS refurbishment National technical approval
Z-33.2-394	StoVentec systems for external facade render National technical approval
Z-33.2-601	StoVentec for timber frame construction National technical approval
P-3614/3075-MPA BS	StoTherm Classic L Testing the fire resistance class in accordance with DIN 4102-2

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### Identification

**Product group** Facade render

### Composition

In accordance with VdL (German Paint and Printing Ink Association) guideline: Construction coating materials for buildings, Polymer dispersion, Titanium dioxide, Calcium carbonate, Aluminium hydroxide, Kieselguhr, Silicate fillers, Water, Aliphatics, Glycol ether, Additive, Preservative

### Security

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](http://www.sto.com).

# Technical Data Sheet

## Stolit K

<b>CE</b>		
<b>Sto AG, Ehrenbachstr. 1, D-79780 Stühlingen 10</b>		
<b>EN 15824</b>		
<b>Stolit K</b>		
<b>Exterior render</b>		
<b>Fire behaviour</b>	A2-s1, d0	Non-combustible
<b>Water absorption</b>		W3 low
<b>Thermal conductivity</b>		NPD
<b>Tensile strength on concrete</b>	≥ 0,3 N/mm <sup>2</sup>	
<b>Durability</b>		NPD
<b>Water vapour diffusion</b>		V2 medium

Rev. no.1

### CE Stolit K

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