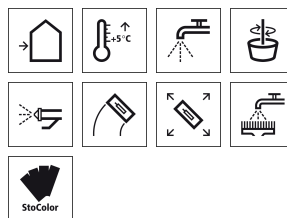


Technical data sheet

Stolit[®] K

Organic finishing plaster to achieve a stippled texture



Characteristics

Areas of application

- exterior
- onto rendered facades that are solid or that have been insulated
- onto mineral and organic substrates
- not suitable for horizontal or sloping surfaces subject to weathering

Properties

- render in accordance with EN 15824
- excellent workmanship, value retention, colour shade and stability
- non-combustible, A2-s1, d0
- 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

Appearance

- stippled render texture

Information/notes

- StoSilo technology - see Services/ Silo overview
- light reflectance value ≥ 15 possible without additional finish

Technical data sheet

Stolit[®] K

Technical data

Criterion	Standard / test regulation	Value/ Unit	Notes
Density	EN ISO 2811	1.7 - 1.9 g/cm ³	
Diffusion-equivalent air layer thickness	EN ISO 7783-2	0.18 - 0.19 m	V2 medium, determined range for K 2
Water permeability rate w	EN 1062 -3	< 0.05 kg/(m ² *h ^{0.5})	W3 low
Water vapour diffusion resistance factor μ	EN ISO 7783-2	90 - 100	V2 medium
Reaction to fire (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 use.

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 following layers, such as bubble formation or cracks.

In the case of finishing renders with a grain size of less than 2.0, adjust the substrate evenness of the planned, finer surface finish. If necessary, carry out additional substrate levelling measures.

Preparations

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

Technical data sheet

Stolit[®] K

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, in case of strong colour shades less water needs to be added to achieve the optimum application consistency. Diluting the material too much will make application more difficult and will result in poorer characteristics (e.g. hiding power, colour shade).

Consumption

Execution	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

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 procedure

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 substrate:
If using on a mineral substrate, it is usually necessary to apply an absorbency-equalising and adhesion-promoting intermediate coat.
Products: Sto-Primer, StoPrep QS (alkalinity-isolating)

Intermediate coat on load-bearing, organic substrate:
On organic substrates we recommend using colour-adjusting intermediate coats if the colour shade of the finishing render is very different to the colour shade of the substrate. When using rilled render textures, a colour shade adjusting intermediate coat is generally recommended.
Products: Sto-Primer, StoPrep QS (alkalinity-isolating)

Technical data sheet

Stolit[®] K

Application

manually, by machine

The finishing render can be applied manually or 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 apply the product evenly to grain size. Texture the render using a plastic trowel or a PU plasterer's float.

The 3.0 mm grain render can be textured with a wooden float.

Apply the product with a hopper gun or commonly-available render spray machines for fine textured renders.

The result depends on the application method, installation tool, and substrate. The tools mentioned are recommendations only.

Drying, curing, ready for next coat

The product dries through the evaporation of water. Complete through-drying is achieved after approx. 14 days. Unfavourable conditions delay drying.

During unfavourable weather conditions it is very important to apply suitable protective measures (e.g. protection against rain) to the work in progress and freshly completed facades.

At +20 °C temperature (air and substrate) and 65 % relative humidity, 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

When applied onto the StoTherm Vario and StoTherm Wood EWI systems, the light reflectance value of the colour shade of the coating may generally not be less than 20 %. StoTherm Classic[®] has a minimum light reflectance value of 15 %. Lower colour shade light reflectance values in the respective system must be assessed separately and on a project-related basis by the system manufacturer.

Colour stability:

Due to weathering, and in particular due to the intensity of UV radiation and the effect of humidity, the surface of coatings changes over time. This can result in visible changes in colour.

At the same time, it is a process which is influenced by material and project

Technical data sheet

Stolit® K

conditions. Hence, it is the state of the art to improve the colour stability for intense and/or very dark colour shades through an additional paint build-up.

Texturing grain colour:

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

For light, clear colour shades and particularly clear yellow colour shades, the colour of the texturing grain may shine through across the area of finishing render. Generally, this is due to the contrast between the colour shade and the marble graining.

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 does not impair the quality and the 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 moisture levels 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:

In case drying is delayed and the coating layers have not fully dried through, surface effects (streaking) caused by dew, mist, water spray or rain can occur during initial stages of weathering because of water-soluble processing aids in the coatings. Depending on the intensity of the colour shade, this effect can occur to varying degrees. This does not constitute an impairment of product quality. These effects usually disappear with the following rainfall.

Tintable	Can be tinted by the user with max. 1 % StoTint Aqua.
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Special options possible	No special settings are required for this product
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Technical data sheet

Stolit[®] K

Packaging pail

Storage

Storage conditions Store tightly sealed in frost-free conditions. Protect against 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 date 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
 i.e.: 5450013223 – storage life until week 45 of the year 2015

Certificates/approvals

ETA-03/0027	StoTherm Classic [®] 1 (EPS and StoArmat Classic) European technical approval
ETA-05/0098	StoTherm Classic [®] 2 (EPS and StoLevell Classic) European technical approval
ETA-06/0004	StoTherm Classic [®] 3 (EPS and Sto-Reinforcement Fibre Plaster) European technical approval
ETA-13/0223	StoTherm Classic [®] 4 (EPS and StoArmat Classic AS) European technical approval
ETA-09/0058	StoTherm Classic [®] 5 (EPS and StoArmat Classic plus) European technical approval
ETA-11/0504	StoTherm Classic [®] 6 (EPS and Sto-Reinforcement Fibre Plaster) European technical approval
ETA-11/0505	StoTherm Classic [®] 7 (EPS and StoPrefa Armat) European technical approval

Technical data sheet

Stolit[®] K

ETA-09/0266	StoTherm Classic [®] 8 (EPS and StoArmat Classic/Classic plus) European technical approval
ETA-13/0582	StoTherm Classic [®] 9 (EPS and StoArmat RC) European technical approval
ETA-12/0030	StoTherm Classic [®] 10 (EPS and StoArmat Classic S1) European technical approval
ETA-07/0156	StoTherm Classic [®] 1 (MW/MW-L and StoArmat Classic) European technical approval
ETA-07/0088	StoTherm Classic [®] 2 (MW/MW-L and StoLevell Classic) European technical approval
ETA-09/0288	StoTherm Classic [®] 5 MW/MW-L (StoArmat Classic plus) European technical approval
ETA-12/0533	StoTherm Classic [®] 10 MW/MW-L (StoArmat Classic S1) 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) 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

Technical data sheet

Stolit[®] K

ETA-12/0561	StoTherm Vario 7 (EPS and StoLevell FT) European technical approval
ETA-04/0075	StoTherm Vario S35 (EPS and StoLevell S35) 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-13/0901	StoTherm Mineral 5 (MW/MW-L and StoLevell FT) European technical approval
ETA-13/0581	StoTherm Mineral 8 (MW-L - System A / System B) European technical approval
ETA-08/0303	StoTherm Wood 1 (HWF and StoLevell Uni, dowel/bracket) European technical approval
ETA-09/0304	StoTherm Wood 2 (HWF and StoLevell Uni) European technical approval
ETA-06/0197	StoTherm Cell European technical approval
ETA-09/0267	StoTherm Resol European technical approval
ETA-13/0580	StoTherm Resol Plus European technical approval
P-3614/3075-MPA BS	StoTherm Classic [®] L Testing the fire resistance class in accordance with DIN 4102-2

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, calcium carbonate, aluminium hydroxide, kieselguhr, silicate filler materials, water, aliphatics, glycol ether, additives, preservatives

Safety

Please observe the safety data sheet

Special notes

The information or data 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. 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. Where no approval is given, such applications are at the risk of the user. This applies particularly to combinations 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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