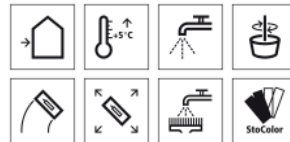


# Technical Data Sheet

## StoSilco K

Silicone resin finishing plaster in stippled texture



### Characteristics

**Application**

- For exterior use
- On mineral and organic substrates
- Not suitable for horizontal or sloping surfaces with weathering

**Properties**

- Low tension
- High CO<sub>2</sub> and water vapour permeability
- Hydrophobic capillary effect
- Highly weather-resistant
- Highly water-repellent

**Appearance**

- Stippled texture

**Specific characteristic/Remarks**

- with film conservative for a delaying and preventive effect against algae and/or fungi attack

### Technical Data

Criterion	Norm / Test Prescript	Value / unit	Notes
Density	EN ISO 2811	1.7 – 1.9 g/cm <sup>3</sup>	
Water vapour diffusion, sd-value	EN ISO 7783-2	0.19 – 0.23 m	V2 for K 2
Liquid-water transmission rate	EN 1062 -3	< 0.05 kg/(m <sup>2</sup> *h <sup>0.5</sup> )	W3
Water vapour diffusion resistance coefficient μ	EN ISO 7783-2	100 - 150	
Thermal conductivity λ		0.7 W/(m*k)	

The values stated are average values. Due to the use of natural raw materials in our products, the actual value determined on an individual delivery may deviate slightly, without compromising product suitability.

### Substrate

**Requirements**

The substrate must be firm, dry, clean and load bearing as well as free of sinter layers, efflorescence and separating agents. Damp or not fully cured substrates can lead to defects in subsequent coats, such as blistering or cracking.

**Preparation**

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

### Application

**Application temperature**

Lowest temperature of substrate/air: +5 °C

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### Material preparation

The consistency has to be set up with the least amount of water possible. Stir up well before application. For machine application, adjust the amount of added water according to the appropriate machine/pump type. Intensive tints generally need less water for optimising the consistency of the material. Too much dilution can impair the application and characteristics (e.g. hiding power, tint).

### Consumption

Type of application	Consumption approx.	
K 1.0	2.00	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>

The consumption depends on the application method, substrate and consistence, amongst other factors. The stated consumption values are guide values only. Where required, precise consumption values can be established on site.

### Coating procedure

Priming coat:  
Depends on the type and condition of the substrate.

Intermediate coat:  
StoPrep Miral or Sto Primer, adjust colour shade on top coat

Top coat:  
StoSilco K

### Application

Manually or by machine

Using a stainless-steel trowel, apply the material evenly in the thickness of the grain size. Use a hard plastic trowel or polyurethane-float for texturing.

Grain size 3.0 can be textured by a floating board (wood).

The material can also be applied with hopper gun or commonly available plaster spray machines for fine plaster.

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

### Drying, curing, overcoating

The material is drying physical by evaporation of water. Thorough drying is completed after 14 days. Unfavourable weather conditions are delaying the drying process.

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.

At +20 °C temperature (air and substrate) and 65 % relative humidity, the next coat can be applied after approx. 24 - 48 hours.

### Tool cleaning

Clean tools with water immediately after use.

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#### Delivery

##### Colour shade

Available in white and limited tintable to selected colours of the StoColor System.

Generally the tint of the coating on EWIS StoTherm Vario and StoTherm Wood may not fall below a lightness value of 20%. The minimum lightness value required for StoTherm Classic is 15 %. Lower lightness values of the coatings in the respective EWIS have to be evaluated separately and system-related by the system manufacturer.

##### Colour stability:

Caused by weather conditions, solar radiation and additions, the surface of coatings can effect discolouration over time. Climate conditions and the exposure of the building are affecting this dynamic process in different ways. Please note the national regulations, data sheets, etc.

##### Black grain:

The sands used in Sto finish plasters are natural products, which depending on the colour, can in a very few cases become visible as lightly darker sand or texture grains. This is not a quality defect, but a minimal optical impairment, which testifies to the natural character and properties of the raw materials used in Sto finish plasters.

##### Calibration grain fraction:

During strong mechanical load it is possible that – with intensive colours – discoloration may occur. Due to the white natural moulding sand used by filler break or pigment abrasion of and/or used natural fillers, these spots may appear lighter. The product quality and functionality are not affected.

##### Tint accuracy:

Due to chemical and/or physical setting processes accompanied by different weather and building conditions, there is no guarantee for tint accuracy and stain resistance, especially if there is:

- a. different absorption capacity of the substrate
- b. different moisture of the substrate
- c. partial high alkaline/ contents in the substrate
- d. direct solar radiation, confined to formation of shades on the fresh applied coating

##### Extraction of the emulsifier:

If the coating hasn't dried completely, due to drying conditions, this could cause effects on the surface due to water soluble additives caused by the first time of weathering with thaw, fog, splash water or rain. Depending on the intensity of the tint, this effect can appear differently. This is not a reduction of quality. Generally those effects will disappear by further weathering.

##### Tintability

Can be tinted up to 1 % with StoTint Aqua.

##### Special modifications/ additives

The product is factory equipped with a film conservation material against algae and fungal attack, an additional setting is not possible. This ensures a preventative and prolonged effect. Please note that while this will prolong the prevention of algae and fungus growth, the effects are not guaranteed to last indefinitely.

# Technical Data Sheet

## StoSilco K

**Packaging** Pail

### Storage

**Storage conditions** Store tightly closed and in frost-free place conditions. Keep out of direct sunlight.

**Storage life** The quality of the material in its original container is guaranteed for the maximum stated storage life. The storage life information is included in the batch number on the container.

Explanation of batch number:

Digit 1 = last digit of the year, digit 2 + 3 = calendar week

Example: 1450013223 - storage life ends at the end of week 45 in 2011

### Certificates / approvals

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 Uni) European technical approval
ETA-06/0004	StoTherm Classic 3 (EPS and Sto RFP) 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 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
ETA-04/0075	StoTherm Vario S35 European technical approval
ETA-06/0197	StoTherm Cell (A2) European technical approval
ETA-04/0074	StoTherm Mineral 4 (MW and StoLevell Beta) 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
Z-33.41-116	StoTherm Classic / Vario, bonded on solid substrates National technical approval

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Z-33.42-129	StoTherm Classic / Vario / Mineral, rail attachment 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, bonded 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 / Vario / Classic L, bonded, in timber frame construction National technical approval
Z-33.49-742	Doubled-up external wall insulation systems National technical approval
Z-33.2-124	StoReno plaster and EWIS refurbishment National technical approval
Z-33.2-394	StoVentec facade National technical approval
Z-33.2-601	StoVentec for timber frame construction National technical approval
Carbon-dioxide permeability StoSilco K	P 5086-2 Testing carbon-dioxide permeability

#### Identification

**Product group** Facade renders and plasters

#### Composition

According to VdL-policy ("Bautenanstrichmittel") polymer dispersion, silicone resin emulsion, titanium dioxide, calcium carbonate, aluminium hydroxide, Kieselgur, silicate fillers, water, aliphates, glycol ether, additives, preservatives

#### GISCODE

M-SF01 silicone resin paint, water-dilutable

#### Health and safety

This product is a hazardous material.  
You will receive an EC Material Safety Data Sheet with your first order.  
You can find the Material Safety Data Sheet under [www.sto.de](http://www.sto.de).  
Please observe the notes on handling, storage and disposal of the product.

#### General information

The information and data in this technical data sheet is intended for common applications and the product's suitability for these, and is based on our findings and experience.  
Nevertheless, users are responsible for establishing the suitability of the product for their intended use.  
Applications other than those mentioned explicitly in this technical data sheet may not be carried out unless they have been discussed 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.

## Technical Data Sheet

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### **StoSilco K**

When a new technical data sheet is published, all previous technical data sheets are no longer valid.

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