

### SILICATE-SILICONE

# SiSi AVANT

Silicate-silicone render



### MAIN ADVANTAGES

- Resistant to adverse atmospheric conditions
- High impact resistance
- Additional protection against algae and fungi growth
- Wide range of colours
- Contains a silicone resin

### AREAS OF APPLICATION

To be used as a manually applied thin top coat for external use and finish coat for **KABE THERM AVANT\*** EWI system based on EPS. It is used on both mineral substrates (e.g.: concrete, cement render and cement-lime render) and on synthetic substrates covered with well set polymer-based coatings. The substrate should be primed with **SiSi GT** prior to the application of the render.

### TECHNICAL SPECIFICATION

**Base binder:** silicate-organic binder;  
**Pigments:** organic and non-organic coloured pigments resistant to atmospheric conditions;  
**Colours:** natural white, colours from the KABE colour chart and selected NCS colours or according to samples provided;  
**Textures:** solid/grained;  
**Grain size:** 1.5 mm; 2.0 mm;  
**Diluent:** water;  
**Temperature of application (air and substrate):** from +5°C to +25°C;  
**Relative humidity:** <75%;  
**Vapour permeability:** Sd=0,21 m (cat. V2);  
**Water absorption:** w=0,1 kg/m<sup>2</sup>·h<sup>0.5</sup> (cat. W2);

**Packaging:** Single-use plastic packaging of 25 kg.  
**Storage:** The product should be stored in its original sealed packaging in a cool frost-protected room. Opened packaging should be tightly closed and used as quickly as possible.  
**Shelf life:** Originally sealed products have a 12-month shelf life from the date of production.

Average coverage (kg/m<sup>2</sup>):

Texture	Grain size (mm)	
		1.5
<b>SOLID/GRAINED</b>	2.5	3.0

### APPLICATION METHOD

**SUBSTRATE PREPARATION:** Apply to a sound/stable and clean substrate (without cracks and delaminations), degreased, even and dry, and biological or chemical efflorescence free. In case of algae/fungi growth, the substrate should be cleaned mechanically and then wash with water and disinfect with **ALGIZID**. Old and/or dirty substrates should be washed off and degreased with water and **CLEANFORCE** cleaning agent. Any loose layers not bound to the substrate (i.e. loose renders or flaked coatings) should be removed. If there is any large unevenness of the substrate (from 5 to 15 mm), use levelling compound and then apply the whole surface with **KOMBI** base coat. Minor unevenness (up to 5 mm) can be levelled out at once and smoothened with **KOMBI** base coat. Absorbent substrates should be primed with **BUDOGRUNT ZG** before levelling compounds application. If the silicate-silicone render is applied on new mineral substrates (i.e. concrete, cement render, cement-lime render) – a min. 4-week curing period is required. Prior to using render in **KABE THERM AVANT** EWI system, all coats of EWI system should be applied in accordance with the requirements for external thermal insulation composite system (ETICS). Silicate-silicone render can be applied on a primed surface only when reinforcing coat is completely dry, i.e. after 3-4 days under normal conditions.

**PRIMING:** The substrate should be primed with **SiSi GT** before applying the render. Primer should be dry before applying a finish coat, curing period lasts about 24 hours. To reduce the risk of substrate colour showing through the texture of top coat, it is recommended to use a primer of the same colour as the top coat.

**PRODUCT PREPARATION:** The packaging contains a ready-to-use product. If stored for a long time and before application, the product should be thoroughly mixed with a low-speed mixer fitted with a basket stirrer until a smooth, homogenous consistency is obtained. Further mixing is not recommended as it may result in excessive aeration of the product. If required, add a small amount of clean water (max. 0.25 l per 25 kg of the product). Quantity of added water may vary depending on the substrate type, drying conditions and application method.

**APPLICATION METHOD:** Using a stainless steel trowel, apply a thin, uniformed quantity of the product to the substrate. The thickness of the coat should be equal to the grain size. To create texture, rub the surface with a plastic trowel with a circular motions.

**DRYING:** Typical drying time ca.6 h (20°C, 55% RH). Complete hardening of render after approx. 48 hours. **Note:** Drying time may be longer, even up to a few days due to low temperatures and high relative humidity. To assist the drying of the finish coat, the surface should be protected against precipitation and condensation.

**USEFUL HINTS:** The final effect may depend on the substrate type. For non-uniform substrates, it is recommended to apply at first the whole surface with **KOMBI** base coat. To avoid colour differences, a single batch product should be applied to entire facade or element. 'Wet on wet' method should be used. All tools should be cleaned with water after work is completed. To be applied on dry days at temperatures between 5-25°C. Avoid applying in direct sunlight or during strong winds. To protect the fresh top coat against inclement weather conditions, scaffolding should be covered with some protective netting or tarpaulin.

\* using the material as a part of the insulation system, the manufacturer provides a guarantee only if all components of the **KABE THERM AVANT**.