

SILICONE

SILCO T AVANT

Silicone render



MAIN ADVANTAGES

- High resistance to adverse atmospheric conditions
- Good vapour permeability
- High dirt resistance
- Low surface absorption
- Additional anti-fungal and algae protection
- High adhesion to both mineral and synthetic substrates

AREAS OF APPLICATIONS

To be used as manually applied thin coat renders for external use and finish coats for **KABE THERM AVANT*** EWI system based on EPS, and **KABE THERM MW*** EWI system based on mineral wool. It can be used for new build and retrofit on both mineral substrates (e.g. concrete, cement render and cement-lime render) and on substrates covered with well set polymer-based coatings. Highly recommended where enhanced adverse atmospheric conditions resistance is required and for systems based on porous substrate materials (e.g.: cellular concrete, cinder blocks, porous brick). The substrate should be primed with **ARMASIL GT** or **SISI GT** (in **KABE THERM AVANT** system) before applying the render.

TECHNICAL SPECIFICATION

Base binder: silicone binder and acrylic binder;

Pigments: coloured pigments resistant to atmospheric conditions;

Colours: natural white, colours from the KABE colour chart and selected NCS colours;

Textures: solid/grained;

Grain size: 1.5 mm; 2.0 mm;

Temperature of application (air and substrate): from +5°C to +25°C;

Relative humidity: ≤75%;

Vapour permeability: $S_d=0.20$ m (cat. V2);

Water absorption: $w=0.11$ kg/m²·h^{0.5} (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 (this is printed on the side of the packaging).

Average coverage (kg/m²):

Texture	Grain size (mm)	
	1.5	2.0
SOLID/GRAINED	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. The substrate should be free of algae/fungi growth. In case of microbial contamination, the substrate should be cleaned mechanically and then wash with water and disinfect with **ALGIZID**. Any loose layers not bound to the substrate (i.e. loose renders or flaked coatings) should be removed. Old and/or dirty substrates should be washed off and degreased with water and **CLEANFORCE** cleaning agent. For uneven substrates, first use levelling compounds and then level out the surface with finish levelling and smoothing compound. Small unevenness can be smoothed with finish levelling and smoothing compound. Use the above products according to their technical data sheets. Absorbent substrates should be primed before levelling compound and/or finish levelling and smoothing compounds application. If the render is applied on new mineral substrates (i.e. concrete, cement render, cement-lime render) – a min. 4-week curing period is required. Before using silicone render in **KABE THERM AVANT** or **KABE THERM MW**, EWI systems, all coats of EWI systems should be applied in accordance with the requirements for external thermal insulation composite system (ETICS). Before applying the silicone finish coat, the primed reinforcing coat has to be fully cured. This can take 3-4 days in typical weather conditions.

PRIMING: The substrate should be primed with **ARMASIL GT** or **SISI GT** (in **KABE THERM AVANT** system) before applying the render. Primer should be dry before applying a finish coat, curing period lasts about 24 hours. Render can be applied when the primer is completely dry. To reduce the risk of the substrate colour showing through the top coat, it is recommended to use a primer that is of the same colour as the render.

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, homogeneous 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 drinking 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 circular motions.

DRYING: Typical drying time ca. 24 h (20°C, 55% RH). **Note:** Drying time may be longer, up to several 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 used on a single application / architectural 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.

* if a product of EWI system is used, the manufacturer provides a guarantee only when all **KABE THERM AVANT** or **KABE THERM MW** system components are applied.