

SILICONE

SILCO F

Silicone facade paint



MAIN ADVANTAGES

- High resistance to adverse atmospheric conditions
- Low surface absorption
- Increased resistance to substrate alkalinity
- Protected against algae and fungi growth
- Wide range of colours
- High coverage
- To be applied on both mineral substrates and polymer coated surfaces

AREAS OF APPLICATIONS

Matt paint intended for performing decorative-protective paint coatings on the external facade of buildings. It is especially recommended for painting the mineral thin coat renders exposed to aggressive atmospheric conditions. To be applied both on mineral substrates (such as concrete, traditional cement renders, cement-lime renders and thin coat mineral renders) and substrates coated with a polymer-based paint coating. It makes up a coating of high vapour permeability and low surface absorption. Prior to paint application, absorbent substrate should be primed with **HYDROPOR**.

TECHNICAL SPECIFICATION

Base binder: silicone and acrylic binder;

Pigments: resistant to UV radiation and atmospheric conditions non-organic coloured pigments;

The content of volatile organic compounds VOC: cat. A/c. The product contains less than 40 g / l VOC;

Density: ca. 1.50 g/cm³;

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

Gloss level: matt;

Diluent: water;

Average coverage: ca. 0.33 l/m² (with double painting on a smooth substrate);

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

Relative humidity: ≤ 75%;

Relative diffusion resistance of the layer with a thickness of 150 µm Sd = 0.50 m (standard requirement Sd ≤ 2.0 m);

Surface absorption coefficient: w = 0.08 kg/m² · h^{0,5} (standard requirement w ≤ 0.5 kg/m² · h^{0,5}).

Packaging: Single-use plastic packaging of 5 and 10 l.

Storage: The product should be stored in its original sealed packaging in a cool, but frostprotected room. Opened packaging should be tightly closed and used as quickly as possible.

Shelf life: Originally sealed products have a 18-month shelf life from the date of production (this is printed on the side of the packaging).

APPLICATION METHOD

SUBSTRATE PREPARATION: Apply to a sound/stable and clean substrate (without cracks and delaminations), degreased, dry, and free of biological contamination or chemical efflorescence. In case of algae/fungi growth, 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 render 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 compound and then level the surface with **KOMBI FINISZ** levelling/finish render. Small unevenness can be levelled out with **KOMBI FINISZ** levelling/finish render. Absorbent substrates should be primed before finish levelling and smoothing compound and/or levelling compound is applied. If paint is applied on new mineral substrates, 1-week curing period is required. Before applying the paint in the **KABE THERM SM** and **KABE THERM SM RENO**, **KABE THERM ELASTO**, **KABE THERM AVANT** and **KABE THERM MW** EWI systems, all coats of the systems must be made in accordance with the technology of the External Thermal Insulation Composite Systems - ETICS. Silicone paint can be applied to thin-layer render only after 7 days of exposure (at + 20 ° C and 65% relative humidity).

PRIMING: Before paint application, the absorbent substrate should be primed with **HYDROPOR**. Primer should be dry before applying a paint, curing period lasts about 12 hours. **Note:** Substrates of low wettability (such as top coats based on polymers or dispersion coatings) should not be primed and should be only washed with water and **CLEANFORCE**.

PAINT PREPARATION: The packaging contains a ready-to-use product. If required, add a small amount of clean water (by adding to the first painting max. 10% of volume and to the second one max. 5%). Quantity of added water may vary depending on the substrate type, drying conditions and application method.

APPLICATION: The paint should be applied on the substrate in two layers by means of a paint brush, roller or spraying (including also 'airless' method). The second paint layer should be applied only after the first one dries completely, i.e. after 3-4 hours. It is recommended to use a special paint roller for facade paints made of woven polyamide with a bristle length of min. 18 mm. Use mechanical spraying only in windless weather.

Note: Due to the special filling (granulation), it is recommended to perform tests before applying a mechanical spray.

Spraying parameters for an airless type device:

| Manufacturer | Device | Nozzle | Pressure [bar] | Filter [mesh] | Dilution [%] | Usage [l/min] |
|--------------|-----------------|----------|----------------|---------------|--------------|---------------|
| WAGNER | ProSpray 3.21 | 0552-519 | 200 | 60 | 10÷20 | 1.25 |
| TITAN | Titan 450e | 661-519 | 200 | 60 | 10 | 1.25 |
| GRACO | UltraMax II 795 | PAA621 | 200 | 60 | 5 | 3.6 |

DRYING: approx. 3 hours for one paint layer applied to substrate (20°C, 55% RH). **Note:** Drying time may be longer due to low temperatures and high relative humidity. Protect the fresh paint coating against precipitation and condensation until it dries completely.

USEFUL HINTS: To avoid colour differences, a single batch product should be applied to entire facade or element in one working cycle. To be applied on dry days at temperatures between 5-25°C. All tools to be cleaned with water after finishing work. Application during direct exposure to sunlight, in strong winds or high air humidity is not recommended. To protect wet coating against inclement weather conditions, scaffolding should be covered with some protective netting.

ADDITIONAL OPTIONS: If paint is applied on substrates covered with cracks with a width of up to 0.3 mm (i.e. small shrinking cracks of the top coat), it is recommended to use paint reinforced with microfibres for the first painting (an option available on request). In order to increase the resistance of the paint coat to the growth of algae and fungi (especially while renovating EWI systems and while painting facades in shaded places of increased humidity and with a high concentration of plants), it is recommended to apply a special protective substance along with the paint (additional service).