

## POLYSILICATE (LOW-ALKALINE)

# NOVALIT F

Polysilicate façade paint



## MAIN ADVANTAGES

- Mineral nature
- Low-alkaline (pH 8-9.5)
- Resistance to adverse weather conditions
- Increased resistance to changes of weather conditions during application and setting
- Anti-fungal and algae protection (reduces the growth of algae and fungi)
- Increased resistance to soiling
- Micro-porous texture, which assures high vapour permeability
- Low surface absorption
- For use on both mineral substrates and plastic-based renders/plasters

## AREAS OF APPLICATION

Mineral topcoat paint based on specially modified potassium water glass intended for paint coatings on the external façade of buildings, including in EPS-based **KABE THERM RENO**, **KABE THERM EPS**, **KABE THERM AVANT** EWI systems and in **KABE THERM MW**, **KABE THERM IN MW** and **KABE THERM SG** EWI systems based on mineral wool. It is especially recommended for primary and renovation painting of mineral substrates (such as traditional lime renders, cement-lime renders and cement renders, as well as thin-coat mineral renders, silicate renders, polysilicate renders) and for the renovation painting of substrates with plastic-based paint coatings when mineral paint coating is required. The polysilicate paint shows a significantly reduced alkalinity (at the level of acrylic products), thanks to which the impact of weather conditions on the quality of created paint coating has been significantly reduced. Absorbent mineral substrates should be primed with **NOVALIT GF** before applying the paint.

## TECHNICAL DATA

**Base binder:** special modified potassium water glass;  
**Pigments:** resistant to UV radiation and atmospheric conditions inorganic coloured pigments;  
**The content of volatile organic compounds VOC:** cat. A/c. The product contains less than 40 g/l VOC;  
**Density:** approx. 1.50 g/cm<sup>3</sup>;  
**Colours:** natural white and colours from KABE colour chart and selected colours from the NCS colour chart or according to a sample provided (possible to obtain using inorganic pigments);  
**Gloss level:** matt;  
**Thinner:** water;  
**Average coverage:** approx. 0.33 l/m<sup>2</sup> (with double painting on a smooth substrate);  
**Temperature of application (air and substrate):** from +5°C to +25°C;

**Relative air humidity:** ≤ 75%;  
**Relative diffusion resistance for the layer with a thickness of 150 µm:**  $S_d = 0.04$  m (standard requirement:  $S_d \leq 2.0$  m);  
**Surface absorption coefficient:**  $w = 0.05$  kg/m<sup>2</sup> · h<sup>0.5</sup> (standard requirement:  $w \leq 0.5$  kg/m<sup>2</sup> · h<sup>0.5</sup>).  
**Packaging:** Disposable plastic packaging containing 5 and 10 litres of product.  
**Storage:** Product should be stored in sealed packaging, in a cool room, but protected from frost. Opened packaging should be tightly closed and used as quickly as possible.  
**Shelf life:** 12 months from the date of production printed on the packaging, with originally sealed packaging.

## HOW TO USE

**SUBSTRATE PREPARATION:** Substrate should be sound/stable (without scratches and cracks), degreased, clean and dry, and free of biological contamination and chemical efflorescence. In case of algae/fungi growth, the substrate should be cleaned mechanically and then washed with water and disinfected with **ALGIZID**. Any loose layers, not bound to the substrate (e.g., loose render or flaked coatings), should be removed. Old and/or dirty substrates should be washed and degreased with water and **CLEANFORCE** cleaning agent. For particularly uneven substrates, first use levelling compounds, and then smooth out the surface with **KOMBI FINISZ** levelling and smoothing compound. Small unevenness can be smoothed right away with **KOMBI FINISZ** levelling and smoothing compound. An absorbent substrate should be primed with an adequate product before applying base coats and/or levelling compounds. If the paint is applied on new mineral substrates (e.g., concrete, lime render, cement render, cement-lime render) – a minimum 2-week curing period is required. Before using the paint in the **KABE THERM AKORD**, **KABE THERM SM** and **KABE THERM SM RENO**, **KABE THERM AVANT** and **KABE THERM MW** EWI system, all layers of the system should be made in accordance with the technology for external thermal insulation composite system (ETICS). Polysilicate paint can be applied to thin-coat render only after min. 7 days of curing (at +20°C and 65% RH)

**PRIMING:** A mineral substrate should be primed with **NOVALIT GF** before applying the paint. The curing period of the product applied to the substrate before applying the paint is about 12 hours. **Note:** Substrates with low wettability (such as plastic-based renders or dispersion paint coatings) should not be primed and should be only washed with water and the **CLEANFORCE** product.

**PAINT PREPARATION:** The packaging contains a ready-to-use product. If necessary, add a small amount of water (by adding to the first painting max. 10% of volume and to the second one max. 5% of water). 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 with a brush, roller or by spraying (including also "airless" method). The second paint layer should be applied only after the first one dries completely, i.e. after min. 24 hours. Use mechanical spraying only in windless weather. It is recommended to use a special paint roller for façade paints made of woven polyamide with a bristle length of min. 18 mm.

Spraying parameters for an Airless sprayer:

Manufacturer	Device	Nozzle	Pressure [bar]	Filter [mesh]	Thinning [%]	Coverage [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	170	60	5	3.6

**DRYING:** Typical setting time for one layer of paint applied onto a substrate is approx. 3 hours (at air temperature +20°C, 55% RH). Complete setting (hardening) of paint coating takes place after min. 24 hours. **Note:** At low temperatures and high air humidity, the paint drying time will be longer. Protect the fresh paint coating against precipitation and condensation until it dries completely.

**USEFUL HINTS:** In order to avoid colour differences, it is necessary to create a surface constituting a separate architectural whole in one work cycle with material from the same production batch. Paint application and drying should take place on dry days at temperatures between +5°C and +25°C. Tools should be cleaned with water immediately after finishing work. Application during direct exposure to sunlight, in strong winds or high air humidity is not recommended. In order to protect the completely undried paint coating against severe weather conditions, it is recommended to use appropriate protective meshes on scaffolds.

**ADDITIONAL OPTIONS:** 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 façades in shaded places with increased humidity and with a high concentration of plants), it is recommended to apply a special protective substance along with the paint (additional service). If paint is applied on substrates with cracks with a width of up to 0.3 mm (e.g., small shrinking cracks of the render coat), it is recommended to use paint reinforced with microfibres (**NOVALIT PLAN**) for the first painting.