

POLYSILICATE (LOW-ALKALINE)

NOVALIT T

Polysilicate render



MAIN ADVANTAGES

- Mineral nature,
- Low-alkaline (pH 8-9.5)
- Resistant to adverse weather conditions
- Increased resistance to soiling
- Very good vapour permeability
- Low surface absorption
- Anti-fungal and algae protection (reduces the growth of algae and fungi)
- For use on both mineral substrates and those covered with plastic-based coatings

AREAS OF APPLICATION

To be used as manually applied thin-coat renders for external use and finish coats for the following EPS-based insulation systems: **KABE THERM RENO**, **KABE THERM AVANT*** and **KABE THERM MW*** based on mineral wool with **NOVALIT RSA** renovation anti-cracking system. Intended for use on mineral substrates (e.g., concrete, cement render, cement-lime render) and on substrates covered with a well-bonded plastic-based paint coating. It is especially recommended in finishing systems for external walls made of materials of porous texture (such as e.g.: aerated concrete, slag concrete, porous brick) and on the walls of new buildings that have not been cured yet. The substrate should be primed with **NOVALIT GT** before applying the render.

TECHNICAL DATA

Base binder: specially modified potassium water glass;

Pigments: inorganic coloured pigments, resistant to weather conditions;

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);

Textures: solid, scraped/mixed, modelled and smooth (texture made up of 2 renders:

of solid texture with the thickness of 1.5 mm and modelled texture);

Grain size: 1.0 mm; 1.5 mm; 2.0 mm; 2.5 mm; 3.0 mm;

Thinner: water;

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

Relative air humidity: ≤ 75%;

Vapour permeability: $S_v = 0.07$ m (cat. V1);

Water absorption: $w = 0.18$ kg/m²·h^{0.5} (cat. W2);

Packaging: Disposable plastic packaging holding 25 kg of the product.

Storage: Product should be stored in original sealed packaging, in a cool room, but protected from frost. Opened packaging should be tightly closed and used as quickly as possible.

Shelf life: 18 months from the date of production printed on the packaging, with originally sealed packaging.

Average coverage (kg/m²):

Texture	Grain size (mm)					
	–	1.0	1.5	2.0	2.5	3.0
SOLID	–	1.8	2.5	3.0	3.7	4.5
SCRAPED/MIXED	–	–	2.5	3.0	3.7	4.5
MODELLED	2.0	–	–	–	–	–
SMOOTH	4.5	–	–	–	–	–

HOW TO USE

SUBSTRATE PREPARATION: Substrate should be sound/stable (without scratches and cracks), degreased, even and dry, and free of biological contamination or 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 finish levelling and smoothing compound. Small unevenness can be smoothed right away with levelling and smoothing compound. Use the above products according to their technical data sheets. An absorbent substrate should be primed with an adequate product before applying levelling compounds or base coats. If the polysilicate render is applied on new mineral substrates (e.g., concrete, cement render, cement-lime render) – a minimum 2-week curing period is required. Before using a render in **KABE THERM RENO**, **KABE THERM AVANT** or **KABE THERM MW** EWI systems, all base coats should be applied in accordance with the requirements for external thermal insulation composite system (ETICS). Before applying the polysilicate render, the primed reinforcing layer has to be fully set. This can take 3-4 days in typical weather conditions.

PRIMING: The substrate should be primed with **NOVALIT GT** before applying the render. The curing period of the product applied to the substrate before applying the render is about 24 hours. To reduce the risk of the substrate colour showing through the top coat (especially when applying scraped or mixed texture render), it is recommended to use a primer with the same colour as the render.

PRODUCT PREPARATION: The packaging contains a ready-to-use product. If stored for a long time and directly 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: Using a stainless steel trowel, apply a thin, uniform layer of the product to the substrate. Then, use a plastic trowel to create a texture, rubbing the applied compound with circular motions (solid and mixed texture) or longitudinal motions in the vertical or horizontal direction (scraped texture). The modelled texture render should be applied using a stainless steel trowel (1-5 mm thick). To achieve the required texture, use a roller, trowel or sponge. A smooth top coat of the render should be carried out in two stages. First apply solid texture render according to the above instruction. Once the previous coat is dry, apply the modelled texture render. The modelled render should be rubbed with circular motions to achieve an even surface of the whole top coat.

DRYING: Typical setting (hardening) time of the render applied onto a substrate is approx. 24 h (at +20°C, 55% RH). **Note:** Setting time may be longer, up to several days, due to low temperatures and high relative humidity. The newly applied render should be protected against precipitation and condensation until it is fully hardened.

USEFUL HINTS: The final effect may depend on the substrate type. Therefore, for heterogeneous substrates, it is recommended to first level its entire surface with a base coat. 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, using the "wet on wet" method. Tools should be cleaned with water immediately after work is completed. The render should be applied and set on dry days at temperatures from +5°C to +25°C. Avoid applying in direct sunlight or during strong winds. In order to protect the unset render against severe weather conditions, it is recommended to use appropriate protective meshes or tarpaulins on scaffolds.

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