

## POLYSILICATE (LOW-ALKALINE)

## NOVALIT T AKORD

Polysilicate render for  
spray application



## MAIN ADVANTAGES

- Mineral nature
- Low-alkaline (pH 8-9.5)
- Resistant to adverse weather conditions
- Highly efficient
- Very good adhesion to substrate
- Anti-fungal and algae protection (reduces the growth of algae and fungi)
- Quick and easy application

## AREAS OF APPLICATION

It is used for spray (machine) application of thin-coat renders outside buildings, including in **KABE THERM RENO\*** EPS-based EWI system and **KABE THERM MW\*** EWI system based on mineral wool. It is especially recommended for use on large surface areas, as well as on substrates with curved, irregular shapes. It ensures high coverage and quick application. 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. The substrate should be primed with **NOVALIT GT**.

## TECHNICAL DATA

**Base binder:** modified potassium water glass;  
**Pigments:** inorganic coloured pigments, resistant to weather conditions;  
**Colours:** natural white and colours according to KABE and NCS colour charts or a sample provided (possible to obtain using inorganic pigments);  
**Textures:** solid;  
**Grain size:** 1.5 mm;  
**Thinner:** water;  
**Temperature of application (air and substrate):** from +5°C to +25°C;  
**Relative air humidity:** ≤ 75%;  
**Vapour permeability:**  $S_v = 0.06$  m (cat. V1);  
**Water absorption:**  $w = 0.16$  kg/m<sup>2</sup>·h<sup>0.5</sup> (cat. W2);  
**Packaging:** Disposable plastic packaging holding 20 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.

Min. coverage (kg/m<sup>2</sup>):

Texture	Grain size (mm)
	1.5
SOLID	2.4

## HOW TO USE

**SUBSTRATE PREPARATION:** Substrate should be sound/stable (without scratches and cracks), degreased, even and dry, as well as 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**. Old and/or dirty substrates should be washed and degreased with water and **CLEANFORCE** cleaning agent. Any loose layers, not bound to the substrate (e.g., loose render or flaked coatings), should be removed. For particularly uneven substrates (from 5 mm to 15 mm), first use levelling compounds, and then level out the wall surface with **KOMBI** adhesive/base coat. Minor unevenness (up to 5 mm) can be levelled out and smoothed straight away with **KOMBI** adhesive/base coat. An absorbent substrate should be primed with **BUDOGRUNT ZG** before applying levelling compounds or base coats. Use the above levelling compounds and/or base coats according to their technical data sheets. Fresh concrete substrates, cement and cement-lime renders can only be plastered after min. 2-week curing period. The base coats of the EWI system should be performed in accordance with the technology of the External Thermal Insulation Composite Systems for buildings — ETICS.

**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. We recommend using a preparation tinted to match the colour of 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. 0.1 l per 20 kg of render compound) to thin the product. Quantity of added water may vary depending on the substrate type, drying conditions and application method.

**APPLICATION:** The render compound should be applied onto the substrate by using a pneumatic spraying device at a working pressure of 3–4 atmospheres and with a nozzle diameter of 5–6 mm. While spraying, the gun should be held perpendicularly to the substrate at a distance of 0.4–0.6 m.

**DRYING:** Typical setting (hardening) time of the render applied onto a substrate is approx. 24 hours (at +20°C, 55% RH). **Note:** Drying 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 smooth out the entire surface with **KOMBI** adhesive/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 dried on dry days at air temperatures from +5°C to +25°C. Avoid applying in direct sunlight or during strong winds. In order to protect the undried 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** or **KABE THERM MW** system are used.