

### POLYSILICATE (LOW ALKALINE)

# NOVALIT T AKORD

Polysilicate render  
for spray application



#### MAIN ADVANTAGES

- Mineral character
- Low-alkali reaction (pH 8 - 9.5)
- Resistance to adverse atmospheric conditions
- Highly efficient
- Very high adhesion to the substrate
- Additional anti-fungal and algae protection
- Quick and easy application

#### AREAS OF APPLICATIONS

It is used for spray (machine) application of thin coat render outside buildings **KABE THERM RENO\*** EWI system based on EPS, and **KABE THERM MW\*** EWI system based on mineral wool. It is especially recommended for large surface areas as well as for the substrates of curved, irregular shapes. It features high coverage capability and quick application. It is used on both mineral substrates (e.g.: concrete, cement render and cement-lime render) and on synthetic substrates covered with well set polymer-based coatings. The substrate should be primed with **NOVALIT GT** before applying the render.

#### TECHNICAL SPECIFICATION

**Base binder:** modified potassium water glass;  
**Pigments:** non-organic coloured pigments with resistance to atmospheric conditions;  
**Colours:** natural white, colours from the KABE colour chart and selected NCS colours or according to samples provided;  
 (can be obtained by adding non-organic pigments);  
**Textures:** solid/grained;  
**Grain size:** 1.5 mm;  
**Diluent:** water;  
**Temperature of application (air and substrate):** from +5°C to +25°C;  
**Relative humidity:** ≤75%;  
**Vapour permeability:**  $S_d=0.06$  m (cat. V1);  
**Water absorption:**  $w=0.16$  kg/m<sup>2</sup>·h<sup>0.5</sup> (cat. W2);  
**Packaging:** Single-use plastic packaging of 20 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).

Minimal coverage (kg/m<sup>2</sup>):

Texture	Grain size (mm)
	1.5
SOLID/GRAINED	2.4

#### 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. In case of algae/fungi growth, the substrate should be cleaned mechanically and then wash with water and disinfect with **ALGIZID**. Old and/or dirty substrates should be washed off and degreased with water and **CLEANFORCE** cleaning agent. Any loose layers not bound to the substrate (such as loose render or flaked paint coats) should be removed. If there is any large unevenness of the substrate (from 5 to 15 mm), use levelling compound and then apply the whole surface with **KOMBI** base coat. Minor unevenness (up to 5 mm) can be levelled out at once and smoothed with **KOMBI** base coat. Absorbent substrates should be primed with **BUDOGRUNT ZG** before levelling compounds and/or finish levelling and smoothing compounds application. Use the above products according to their technical data sheets. Fresh concrete substrates, cement renders and cement-lime renders may be rendered only after a curing period of at least 2 weeks. All coats of EWI system should be applied in accordance with the requirements for external thermal insulation composite system (ETICS).

**PRIMING:** The substrate should be primed with **NOVALIT GT** before applying the render. Primer should be dry before applying a finish coat, curing period lasts about 24 hours. It is recommended to use a primer that is of the same colour as the finish coat.

**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, homogenous 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 clean water (max. 0.1 l per 20 kg of the product). Quantity of added water may vary depending on substrate types, drying conditions and application method.

**APPLICATION METHOD:** Render should be applied onto the substrate by using a pneumatic spraying device at a working pressure of 3÷4 atmospheres and 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 binding (setting) time ca. 24 h (20°C, 55% RH). **Note:** Drying time may be longer 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 RENO** or **KABE THERM MW** system components are applied.