

### MINERAL

# MINERALIT T AKORD

Dry mineral mortar/top coat for spray application



### MAIN ADVANTAGES

- Non-flammable top coat
- Aesthetic, white and uniformed coat texture
- Mineral character
- High vapour permeability
- Natural resistance to algae and fungal growth
- High coverage
- Quick and easy application

### AREAS OF APPLICATIONS

Dry mineral mortar for the machine application of thin-layered top coat for use outside and inside buildings and finishing coats in **KABE THERM SM** and **KABE THERM SM RENO** EWI systems based on EPS (grain size 1.5 mm) and **KABE THERM MW** EWI system based on mineral wool (with a grain size 1.5 mm) and **KABE THERM SG** ceiling insulation system (with a grain size of 1.0 mm and 1.5 mm). 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. Intended for mineral substrates (e.g. concrete, cement, cement-lime render/plaster). It is especially recommended in finishing systems for external walls made of materials of porous texture (such as e.g.: lightweight concrete, cinder block, porous brick) and on the walls of new buildings which have not undergone seasoning yet. The substrate should be primed with **MINERALIT GT** prior to the application of the mineral mortar.

### TECHNICAL SPECIFICATION

**Base binder:** mixture of hydraulic binders with the addition of modifiers;  
**Mixing ratio:** ca. 6 l of water per 25 kg of mortar;  
**Colour:** white;  
**Texture:** solid/grained;  
**Grain size:** 1.0 mm; 1.5 mm;  
**Temperature of application (air and substrate):** from +5°C to +25°C;  
**Top coat mortar type:** GP (general purpose);  
**Compressive Strength:** cat. CS IV;  
**Adhesion to substrate:**  $\geq 1.6$  N/mm<sup>2</sup>  
**Water absorption due to capillary action:** class W2;  
**Gross bulk dry density:** ca. 1,500 kg/cm<sup>3</sup>  
**Water vapour permeability coefficient  $\mu$**   $\leq 34.9$

**Reaction to fire:** class A1.  
**Storage:** Store in original sealed packaging, in dry rooms, on pallets, at temperatures from +5°C to +25°C. Shelf life is 12 months from the date of manufacturing provided on the packaging.  
**Packaging:** Bags: 25 kg. Palette: 1,200 kg (48 bags).  
 Coverage chart:

Grain size [mm]	Average coverage [kg/m <sup>2</sup> ]
1.0	1.8 – 2.2
1.5	2.0 – 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 and/or fungal growth, the substrate should be cleaned mechanically, then rinsed with water and disinfected with **ALGIZID** agent. Any loose layer not bound to the substrate (i.e. loose render or flaked coatings) should be removed. Old and/or dirty substrated should be washed off and degreased with water and **CLEANFORCE** cleaning agent. For uneven substrates, first use levelling compound and then smoothen the surface with finish levelling and smoothing compound. Small unevenness can be levelled out at once with finish levelling and smoothing compound. Use the above products according to their technical data sheets. Absorbent substrates should be primed before levelling compounds application. If a mineral finish coat is applied on new mineral substrates (i.e. concrete, cement plaster/render, cement-lime plaster/render) – a min. 2-week curing period is required. Prior to using dry mortar in **KABE THERM SM** and **KABE THERM SM RENO** and **KABE THERM MW** EWI systems, all coats of EWI systems should be applied in accordance with the requirements for external thermal insulation composite system (ETICS). The mineral mortar can be applied onto a primed surface only when reinforcing coat is completely dry, i.e. after 3–4 days under normal conditions.

**Note:** Prior to starting machine spraying it is necessary to provide a protective foil to protect all components that could be damaged, including cables and system components.

**PRIMING:** The substrate should be primed with **MINERALIT GT** before applying the mortar. Typical setting time for the primer applied on a substrate is about 24 h under optimum weather conditions (temp. +20°C, 55% RH). When the primer is completely dry, the mortar can be applied.

When using factory unprimed mineral wool in "garage" systems, it is necessary to prime the surfaces with **MINERALIT GT** at least 1 day before applying the finish coat. The primer should be applied by following the instructions provided on the packaging. When using factory primed boards, the resulting surface is ready for application.

**MORTAR PREPARATION:** Mineral mortars are provided in the form of dry powder mixtures ready to mix with water. Mixing should be carried out by following the instructions for the mixing machine. Depending on the type and parameters of machine, it may be necessary to adjust mortar consistence to meet the machine requirements by adding a small amount of water. When applying the mortar to large surface area ceilings, it is necessary to divide into smaller working areas to avoid any visible top coats joints.

**APPLICATION:** Machine application can be carried out by using mortar machines. During application hold the gun perpendicularly to the substrate at a distance range from 0.4 to 0.6 m. In ceiling thermal insulation systems the application of decorative layer onto a primed surface of bevelled lamella wool should be performed in two stages. At a stage one, cover the working area holding the spraying lance at angle slightly less than straight in one direction, at stage two, make another spray application, tilting it in opposite direction.

**Note:** Any work related to machine spraying of the finish coat should be carried out by a properly trained person. The product is alkaline, therefore, it is necessary to protect eyes and skin. Safety clothing (PPE) must be worn while carrying out any work. In case of contact with eyes, immediately rinse them thoroughly with plenty of water. If irritation develops, seek medical assistance.

**DRYING:** Typical setting time for the mortar applied to a substrate (20°C, 65% RH) is min. 7 days. After the period of time, the top coat made is suitable for painting with **ARMASIL F** silicone paint, **NOVALIT F** polysilicate paint, **CALSILIT F** silicate paint (provided that the aforementioned drying conditions are met and using a recommended paint primer). **Note:** Drying time may be longer by a few days due to low temperatures and high relative humidity. To assist the drying of the fresh coat, the surface should be protected against precipitation and condensation. The top coat obtains its full impact resistance only after ca. 28 days.

**USEFUL HINTS:** To avoid differences in texture, a single batch product should be applied to entire facade or element. 'Wet on wet' method should be used. The process of application and binding of mortar requires dry days and temperatures between +5°C to +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 protective nettings and tarpaulins. All tools should be cleaned with water after finishing work.

\* EWI system is used, the manufacturer provides a guarantee only when the whole **KABE THERM SM** and **KABE THERM SM RENO** and **KABE THERM MW** or **KABE THERM SG** system is implemented.