

MINERAL

MINERALIT T AKORD

Refined mineral render/
plaster for spray application



MAIN ADVANTAGES

- Non-flammable render
- Aesthetic, white and uniform texture
- Mineral nature
- High vapour permeability
- Natural resistance to algae and fungal growth
- High coverage
- Quick and easy application

AREAS OF APPLICATION

Dry mineral render/plaster for spray application of thin-coat renders outside and inside buildings, as well as finishing coats in EPS-based EWI system (with grain size 1.5 mm) and EWI system based on mineral wool **KABE THERM MW** (with grain size 1.5 mm), as well as ceiling thermal insulation system **KABE THERM SG** (with grain size 1.0 mm and 1.5 mm). It is especially recommended for use on large surface areas, as well as on substrates with curved or irregular shapes. It ensures high coverage and quick application. Intended for use on mineral substrates (such as concrete, cement plaster, cement-lime plaster). 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 **MINERALIT GT** before applying the mineral render.

TECHNICAL DATA

Base binder: mixture of hydraulic binders with the addition of modifiers.
Mixing ratio: approx. 6 l of water per 25 kg of mortar.
Colour: white.
Texture: solid.
Grain size: 1.0 mm; 1.5 mm.
Temperature of application (air and substrate) from +5°C to +25°C.
Plaster/render type: GP (general purpose)
Compressive strength range: class CS IV
Adhesion to substrate: ≥ 1.6 N/mm²
Water absorption due to capillary action: class W2
Gross bulk dry density: approx. 1500 kg/m³

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. Pallet: 1200 kg (48 bags).

Coverage chart:

Grain size [mm]	Average coverage [kg/m ²]
1.0	1.8 - 2.2
1.5	2.0 - 2.4

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 mineral 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 the product in **KABE THERM SM**, **KABE THERM SM RENO** and **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 mineral render, the primed reinforcing layer has to be fully set. This can take 3-4 days in typical weather conditions.

Note: Prior to starting machine spraying, it is necessary to provide a protective film 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 render/plaster. Typical setting time for the primer applied on a substrate is about 24 h under optimum weather conditions (temperature +20°C and relative humidity of 55%). Render/plaster can be applied when the primer is completely set.

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 render application.

RENDER PREPARATION: Mineral renders are provided in the form of dry powder mixtures ready to mix with water. Mixing should be carried out in accordance with the machine's user manual. It may be necessary to adjust render consistency to meet the machine requirements by adding a small amount of water. When applying the render to large surface area ceilings, it is necessary to divide it into smaller working areas to avoid any visible joints.

APPLICATION: Machine application can be carried out by using a plastering machine. During application hold the gun perpendicularly to the substrate at a distance ranging 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 boards should be performed in two stages. At stage one, cover the working area holding the spraying lance at an 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 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: The setting time (at drying temperature of +20°C and a relative humidity of 65%) for render/plaster applied onto a substrate is minimum 7 days. After this period of time, the render can be painted with **ARMASIL F** silicate paint, **NOVALIT F** polysilicate paint, **CALSILT F** silicate paint (providing the above drying conditions are ensured and an appropriate primer is used for the paint). **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. The render becomes fully mechanically resistant only after approximately 28 days.

USEFUL HINTS: In order to avoid texture 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. The render/plaster should be applied and set 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 unset render against severe weather conditions, it is recommended to use appropriate protective meshes or tarpaulins on scaffolds. Tools should be cleaned with water immediately after work is completed.