

FOR MINERAL WOOL

KOMBI WM2

Mineral
adhesive/base coat
for mineral wool



MAIN ADVANTAGES

- High resistance to shrinking cracks
- Optimum impact resistance
- Very good vapour permeability
- High adhesion to substrate and mineral wool
- Easy way to apply and smooth the surface
- Contains microfibres and reinforcing fibres

AREAS OF APPLICATION

Adhesive intended for preparation of layer reinforced with fibreglass mesh on mineral wool boards, as well as bonding mineral wool boards to the substrate in **KABE THERM MW**, **KABE THERM IN MW**, **KABE THERM MW ELASTO**, **KABE THERM MW CK**, **KABE THERM MW ELASTOLITH / HAAKSBERGEN**, **KABE THERM MW DECOR EFFECT*** and **KABE THERM SG*** EWI systems. To be applied on mineral substrates made of fine masonry components (bricks, blocks, stone, etc.) or concrete (monolithic or prefabricated products). The **KOMBI WM2** render can be used in the technology of external thermal insulation composite system – ETICS.

TECHNICAL DATA

Base binder: hydraulic and polymer binders with modifiers added;
Bulk density: approx. 1.5 g/cm³;
Mixing ratio: approx. 6.0 l of water per 25 kg of mortar;
After adding water, the product must be used within: approx. 2 hours (at +20°C and 50% RH);
Open drying time: ≥ 25 minutes;
Colour: light grey;

Consumption: while installing façade and dual-density mineral wool boards: approx. 5.0 kg/m², while installing lamella mineral wool boards: approx. 5.5 kg/m², while installing reinforced layer: approx. 5.0 kg/m².
Temperature of application (air and substrate): from +5°C to +25°C;
Packaging: Disposable paper packaging containing 25 kg of product.
Storage: Product should be stored in original sealed packaging, in a dry room, protected from moisture and frost.
Note: The product must be kept out of the reach of children.
Shelf life: 12 months from the date of production printed on the packaging, with originally sealed packaging.

HOW TO USE

SUBSTRATE PREPARATION: Substrate before gluing thermal insulation boards should be sound/stable, degreased, clean and dry, and free from 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**. The substrate must be protected against capillary moisture intake and precipitation water. 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. If any substrate unevenness exceeds 1 cm, first use a levelling compound. Absorbent substrates should be primed with **BUDOGRUNT ZG** before applying levelling compound / adhesive coat. Before fixing the thermal insulation boards on unstable substrates, an adhesion test should be performed. The test involves fixing a few (8–10) mineral wool samples (with 10 x 10 cm dimensions) in various places of the façade and then tearing them off after 3 days. The substrate load-bearing capacity is sufficient when tearing happens within the thermal insulation layer. If the whole sample, including adhesive and substrate layer, is torn off, then it is necessary to remove the poorly bound layer from the substrate and prime it with **BUDOGRUNT ZG**. When the primer is dry, repeat the adhesion test. If the repeated test also gives a negative result it is necessary to consider additional mechanical fixing or a special substrate preparation. Before applying the **KOMBI WM2** base coat, to carry out the reinforced layer, the thermal insulation layer of the system must be made in accordance with the requirements for external thermal insulation composite system (ETICS). **Note:** Before applying a thin layer of **KOMBI WM2** render, prime the mineral substrate with **BUDOGRUNT ZG** diluted 1:1 with water and protect with meshes to prevent excessively rapid vaporizing of make-up water and burning the render.

PRODUCT PREPARATION: Gradually pour the entire packaging contents into a container with a pre-measured amount of clean, cool water (approx. 6.0 litres), stirring constantly (with a low-speed mixer/drill with a stirrer), until a homogeneous, lump-free mixture is obtained. After leaving it for 5 minutes and remixing, the mortar is ready to use. After adding water, the product must be used within: approx. 2 hours (at air temperature +20°C and air relative humidity of 50%).

FIXING OF FAÇADE AND DUAL-DENSITY MINERAL WOOL BOARDS: The prepared adhesive to be spread in the places, where the adhesive will be applied later on by means of the ribbon and dab method. The ribbon should be 3–6 cm wide, and should be applied onto the board perimeter. In addition, 3 to 6 dabs of mortar (approx. 10–15 cm in diameter) should be evenly placed on the central surface of the board. The ribbons applied on the board perimeter must be formed in a prism shape. To do so, spread it with a trowel positioned at a 45° angle towards the board surface. Once the mortar is applied, put the board immediately onto the wall in the target position and press firmly to flush it with neighbouring boards. Boards must be tightly fitted next to each other using the staggered method. Remove the excess of squeezed mortar, so as not to leave any remains on board edges. Correctly applied mortar should cover min. 40% of board surface area, while the mortar thickness after fixing should not exceed 1 cm. After allowing a sufficient time to set (at least 48 hours), the boards can be fixed by using adequate mechanical fixings, as intended by the thermal insulation system design.

FIXING OF LAMELLA MINERAL WOOL BOARDS: Using a stainless steel trowel, the prepared adhesive should be spread from the side it is applied on. Then, adhesive should be applied onto the prepared surface in a thin, even layer with a notched trowel (with notch dimensions of 12 x 12 mm). Once the mortar is applied, put the board immediately onto the wall in the target position and press firmly with a trowel. Properly applied mortar should cover the whole board surface, and its thickness after fixing should not exceed 1 cm. Mineral wool should be glued in layers from the bottom to the top, assuring the alternate board pattern. After allowing a sufficient time to set (at least 48 hours), the boards can be fixed by using adequate mechanical fixings, as intended by the thermal insulation system design.

APPLYING THE REINFORCED LAYER: First, the edges of window and door openings should be reinforced by fixing to their corners diagonally (i.e., at a 45° angle) fibreglass mesh (with the dimensions 25 x 30 cm) using the adhesive/base coat. The reinforced coat can be applied on even, cleaned (previously sanded, if required) surfaces of mineral wool boards, not earlier than 3 days from the date of board installation. To do this, apply the adhesive and base coat to the substrate in a thin, even layer to the width of the reinforcing mesh using a notched trowel (tooth size 10 x 10 mm). After applying the adhesive/base coat, immediately embed the fibreglass mesh into it, so that it is evenly stretched and completely embedded in the mortar. The neighbouring mesh stripes must be glued with an overlap of at least 10 cm. After embedding the mesh, the entire reinforced layer surface should be carefully levelled, using an additional portion of render, if necessary. Any marks left after levelling should be sanded down with a sandpaper. The thickness of the coat reinforced with one mesh layer should range from 4 to 5 mm.

DRYING: The coat applied to the substrate can be further processed, assuming one day of drying for each 1 mm of layer thickness (drying at a temperature of +20°C and a relative air humidity of 65%). **Note:** Setting time may be longer, even by up to a few days, due to low temperatures and high relative humidity. The newly applied layer should be protected against precipitation until it is fully hardened and set.

USEFUL HINTS: In order to avoid cracks and unevenness, it is necessary to complete a single application to any architectural element in one working cycle. The adhesive/base coat should be applied and dried on dry days at temperatures between +5°C and +25°C. Wash tools with water immediately after finishing work. Avoid working on surfaces directly exposed to sunlight, as well as in strong winds and at high air humidity. In order to protect the undried reinforced layer against severe weather conditions, it is recommended to use appropriate protective meshes or tarpaulins on scaffolds. **Note:** 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.

* if the product is used in an EWI system, the manufacturer provides a warranty only when all components of **KABE THERM MW**, **KABE THERM IN MW**, **KABE THERM MW ELASTO**, **KABE THERM MW CK**, **KABE THERM MW ELASTOLITH / HAAKSBERGEN**, **KABE THERM MW DECOR EFFECT** systems are used.