

FOR MINERAL WOOL

KOMBI WM2

Mineral adhesive/base coat for mineral wool



MAIN ADVANTAGES

- High resistance to shrinking cracks
- Optimal impact resistance
- Very high vapour permeability
- High adhesion to the substrate and mineral wool
- Easy application and surface smoothing
- Contains microfibres and polypropylene fibres

AREAS OF APPLICATIONS

Adhesive/base coat intended for performing the reinforcing coat with fibreglass mesh and for bonding mineral wool boards in **KABE THERM MW*** and **KABE THERM IN MW*** and **KABE THERM SG***EWI systems. **KOMBI WM2** adhesive/base coat may be used as part of ETICS systems (external thermal insulation composite systems).

TECHNICAL SPECIFICATION

Base binder: hydraulic and polymer binders with modifiers added;

Volumetric density: approx. 1.5 g/cm³;

Mixing ratio: ca. 6.0 l of water per 25 kg of base coat;

After adding water, product must be used within: approx. 2 hours (20°C, 50% RH);

Open drying time: ≥ 25 minutes;

Colour: light grey;

Consumption: while installing facade and dual-density mineral wool boards ca. 5.0 kg/m², while installing lamella mineral wool boards ca. 5.5 kg/m² while performing reinforcing coat ca. 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: The product should be stored in its original sealed packaging, in a dry, frost and moisture protected room.

Note: The product must be kept out of the reach of children.

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).

APPLICATION METHOD

SUBSTRATE PREPARATION: Apply to a sound/stable and clean substrate, degreased, dry, and free of biological contamination or chemical efflorescence. In case of algae/fungi growth, the substrate should be cleaned mechanically and then wash with water and disinfect with **ALGIZID**. The substrate must be protected against capillary action, moisture intake and precipitation. Any loose layers not bound to the substrate (i.e. loose render or flaked coatings) should be removed. Old and/or dirty substrates should be washed off and degreased with water and **CLEANFORCE** cleaning agent. If any substrate unevenness exceeds 1 cm, use a levelling compound first. Absorbent substrates should be primed with **BUDOGRUNT ZG** before levelling compound or adhesive/base coat is applied. Before fixing thermal insulation boards to uncertain substrates, it is necessary to perform an adhesion test. The test involves fixing a few (8-10) mineral wool samples of 10 x 10 cm dimensions in various places of the facade and then tearing them off after 3 days. The substrate load-bearing capacity is sufficient when the tearing happens in the thermal insulation. 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 dries, the adhesion test must be performed again. If the test provides a negative result, it is necessary to consider additional mechanical fixing or a special substrate preparation. Before using **KOMBI WM2** base coat to apply a reinforcing coat, it is necessary to make the system thermal insulation in accordance with the external thermal insulation composite system technology.

PRODUCT PREPARATION: Gradually pour the contents of the packaging into a container with a measured amount of clean and cold water (approx. 6 liters) while continuously mixing the mass (with a low-speed mixer fitted with a basket stirrer) until homogeneous mixture is obtained. After waiting for 5 minutes and remixing, the adhesive/base coat is ready for use. After adding water, the adhesive/base coat must be used up within approx. 2 hours (20°C, 50% RH).

FIXING OF FACADE AND DUAL-DENSITY MINERAL WOOL BOARDS: The prepared adhesive should 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 perimeter of the slab. In addition, 6 to 8 dabs of adhesive (approx. 10-12 cm diameter) should be evenly placed on the remaining part of the slab. The ribbons must be formed in a prism shape. To do so, spread it with a trowel set at an angle of 45° towards the slab surface. Once the adhesive is applied, the slab must be immediately put onto the wall in its appropriate place and pressed to flush it with the neighbouring boards. Boards must be tightly fitted next to each other using staggered method. Excess adhesive coming out from boards must be removed so that no adhesive/base coat is left on the slab edges. Properly applied adhesive/base coat must cover not less than 40% of the slab surface, and the adhesive layer thickness should not exceed 1 cm. After allowing sufficient time to cure (at least 48 hours), the boards should be fixed by means of applicable mechanical fixings pursuant to the thermal insulation project.

FIXING OF LAMELLA MINERAL WOOL BOARDS: Using a stainless steel trowel, the prepared adhesive/base coat should be spread from the side it is applied on. Then, a thin and even layer of adhesive/base coat should be applied on the surface prepared in such a way by using a toothed trowel (with a tooth dimension of 12 x 12 mm). Afterwards, the slab must be immediately put onto the wall in its appropriate place and pressed with the trowel. Properly applied adhesive/base coat should cover the whole slab surface, and its thickness after attaching the slab should not exceed 1 cm. Mineral wool should be attached in layers from the bottom to the top assuring an alternate boards system. After allowing sufficient time for adhesive/base coat to set (at least 48 hours), the boards stuck should be fixed by means of applicable mechanical fixings pursuant to the thermal insulation project.

REINFORCING COAT APPLICATION: First the edges of window and door openings should be reinforced by means of fixing to their corners diagonally running (i.e., at an angle of 45°) fibreglass mesh (with the dimensions of 25 x 30 cm) by using base coat. The reinforcing coat must be applied on even, clean and previously sanded surfaces of mineral wool boards not earlier than 3 days from the date of board installation. Apply a continuous and even layer of the base coat onto the substrate as wide as the reinforcing mesh is with a toothed trowel (a tooth size of 10 x 10 mm). After applying the base coat, it is necessary to immediately immerse the glass fibre mesh in it to tension it evenly and to completely immerse in the base coat. The neighbouring mesh stripes must overlap not less than 10 cm. If necessary, in order to make the surface more even, an additional thin layer of base coat can be applied. Any trowel marks should be sanded down with a sandpaper. The thickness of the reinforcing coat should be 4-5 mm.

DRYING: Base coat applied on the substrate may be subject to further processing, assuming one day of drying for each 1 mm of the layer thickness (while drying at 20°C, 65% RH). **Note:** The setting time may be longer by even up to a few days due to low temperatures and high relative humidity. Protect the fresh layer against precipitation until complete setting and binding is obtained.

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 base coat should be applied on dry days at temperatures between 5 and 25°C. All tools must be cleaned with water after finishing work. Avoid working on surfaces exposed to direct sunlight, in strong winds or at a high air humidity. To protect a still wet reinforcing coat against inclement weather conditions, scaffolding should be covered with some protective netting or tarpaulins. **Note:** The product is alkaline, therefore, it is necessary to protect eyes and skin. Safety clothing (PPE) must be worn while carrying out any installation work. In case of contact with eyes, immediately rinse them thoroughly with plenty of water. If irritation develops, seek medical assistance.

* if a product of EWI system is used, the manufacturer provides a guarantee only when all **KABE THERM MW** or **KABE THERM IN MW** or **KABE THERM SG** system components are applied.