

KOMBI KS1

Joint mortar with a trass for grouting facade bricks, clinker bricks and clinker tiles

NEW



MAIN ADVANTAGES

- Mineral mortar with trass that minimises the risk of efflorescence
- By using the trass, it ensures high vapour permeability of the wall, reduces mortar tension during setting and strongly thickens the mortar structure, limiting capillary transport of mixing water
- It is hydrophobic and resistant to adverse atmospheric conditions after setting
- High compressive strength > 15 N/mm²
- Available in several colours according to the colour chart

AREAS OF APPLICATIONS

Factory tinted, dry mixture for grouting hand-formed clinker facade tiles and for ceramic facade tiles and stone cladding in the **KABE THERM CK EWI** system. The required joint width is in the range of 6 ÷ 20 mm. **KOMBI KS1** mortar is a product based on selected aggregates, high-quality cements, volcanic tuff (trass) and additives, ready for use after adding an appropriate amount of mixing water. The product is a component of EWI system based on EPS, made in the technology of the external thermal insulation composite system ETICS.

TECHNICAL SPECIFICATION

Composition: dry mixture of white cement binder, aggregates and polymer modifying additives, reinforced with cellulose and polypropylene fibers;

Average consumption: approx. 6 kg / 1m², depending on the size of the tiles. Consumption should be checked under specific conditions as it depends on the depth and width of the joint.

Mixing ratio: 3.0÷3.5 liters of water for 25 kg of mortar

Time of consumption: approx. 1.0 hour

Joint width / depth: 6÷20 mm

Colours: according to the Farby KABE joint colour chart

Grain thickness: up to 0.5mm

Application temperature (air and substrate): from +5°C to +25°C. Note: Lower or higher than optimal temperature may adversely affect the properties of the product.

Performance: From one 25 kg bag of mortar, after adding the appropriate amount of water, we obtain 16 liters of ready-to-use mortar.

Packaging: 25 kg bags, reinforced paper bags, with a double polyurethane film liner. 48 bags on a pallet.

Storage: 12 months - recommended use within 6 months.

Storage conditions: Protect against moisture and store in a dry place on pallets in original packaging. Opened packages should be tightly closed.

Fire spread rate: NRO

Water absorption of the reinforcing coat after 24 hours: <0.5 [kg/m²]

Water absorption of the top layer after 24 hours: <0.5 [kg/m²]

Impact resistance of the top layer: cat. I

Diffusion resistance of the surface layer: Sd ≤ 5.7 [m]

Frost resistance of the top layer: no damage

Top layer adhesion to EPS:

- in laboratory conditions: ≥ 0.08 [MPa]

- after 2 days of immersion in water and 2 hours of drying: ≥ 0.08 [MPa]

- after ageing: ≥ 0.08 [MPa]

- after cycles of frost resistance: ≥ 0.08 [MPa]

Maximum weight: 260 N

Maximum deflection: 8.4 mm

APPLICATION METHOD

Substrate: The substrate should be clean, free from dust and oil. Remove all loose, unbound parts and remnants of adhesive. Grouting can be started after approx. 14 days after fixing the tiles or facings. Before pointing, the substrate should be slightly moistened with water using a sprinkler to increase adhesion.

Mortar preparation: Mix the contents of the entire package of 25 kg with approx. 3.0 ÷ 3.5 l of water (to maintain a uniform shade of colour, always dose the same amount of water). Mix thoroughly the **KOMBI KS1** mortar using a slow-speed mixer or a concrete mixer until a homogeneous mass with a moist consistency is obtained, the so-called "wet ground". After mixing, wait 5 minutes and mix again. A properly prepared mortar, when squeezed in the hand and opened, forms a compact lump and leaves no wet trace. The prepared portion of the mortar should be used within one hour. Note: It is forbidden to add water to the previously prepared mortar during works, because it may change the colour.

Grouting: **KOMBI KS1** mortar is applied from top to bottom using a grouting kit. The mortar should be applied using the "wet on wet" method, at the same time compacting the mortar structure by pressing a stainless steel "joint" trowel or using other tools. The joint width and depth should be between 6 mm and 20 mm. It is recommended to make a full (flush) or concave (semicircular) joint. With a joint depth of less than 10 mm, chipping may occur. All kinds of dirt should be removed only with a dry, soft brush. Note: The use of water for cleaning fresh mortar is unacceptable!

Drying: Fresh mortar should be protected against adverse weather conditions (frost, gusty winds, direct sunlight and rain) for approx. 7 days. For this purpose, the jointed surfaces should be covered with a tarpaulin, foil or mats. Adequate ventilation should be provided around the jointed element. Optimum processing conditions: air, substrate and product temperature should be within 5°C ÷ 25°C. Note: Lower or higher than optimal temperature may adversely affect the properties of the product. Low temperature and high air humidity may extend the setting and drying time. After the joints are completely set and dry, it is recommended to use the **SILIKON B** siloxane impregnation over the entire surface of the wall (joints and tiles / bricks).

Useful hints: The mortar is mass-coloured and available in colours according to the Farby KABE colour chart. Due to the repeatability of colour, bags from the same production batch should be used (batch number and mortar colour on the print on the side of the bag). Apart from clean water, no other substances may be added. Before starting grouting, the bricks should be cleaned of production residues and dust (this is especially important for hand-formed tiles with a rustic appearance). Loose particles present on the surface of the tiles will reduce the bond strength and strength. The tiles must not be wet or frozen.

Safety hints: It is a dusty product in dry conditions, in combination with water or moisture it gives a strongly alkaline reaction. Therefore, protect the eyes and skin. Use standard methods of skin, eyes and respiratory protection. In the case of mortar contact with the skin, rinse the contact area thoroughly with water. In case of eye contact mortar is required extensive washing the eye with water and seek immediate medical advice.