

### EPS BASED

# KABE THERM MARMURIT / MOZAIKER SYSTEM CONSTRUCTION



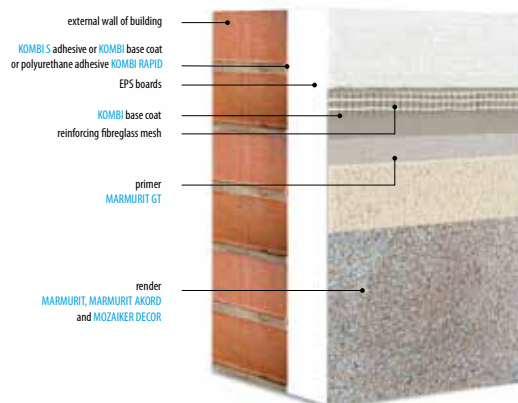
EWI system for buildings with mosaic external render and decorative renders imitating stone cladding

### MAIN ADVANTAGES

- Reduction of heating costs
- Interior micro-climate improvement
- Attractive decorative effects and high aesthetics of the facade
- Protection of walls against the impact of adverse atmospheric conditions
- Easy and quick spray renders application
- A wide range of colour compositions

### TECHNICAL SPECIFICATION

**Type of thermal insulation:** EPS boards with the following code: EPS-EN 13163-T(2)-L(2)-W(2)-S(5)-P(5)-BS75-DS(N)2-DS (70,-)2-TR80 - MU20;  
**Thickness of thermal insulation:** from 5 to 30 cm inclusively;  
**Thermal insulation fixing:** bonding or bonding and mechanical fixing;  
**Use of mechanical fixing:** optional (as specified in technical design);  
**Reinforcing mesh:** reinforcing fibreglass mesh;  
**Fire classification:** non-fire spreading system (NRO);  
**Colours:** according to the MARMURIT MOZAIKER AKORD, MOZAIKER DECOR charts;  
**Textures:** solid/grained;



**Grain size:** 0.8 mm (AKORD) and 1.0 mm and 1.5 mm

**Adhesion:**

- to concrete
- do EPS

≥ 0.25 MPa;  
 ≥ 0.08 MPa;

**Adhesion after ageing of the surface layer:**

**Water absorption (after 24 hours):**

**Impact resistance for the system with MOZAIKER DECOR render :**

- other systems

≥ 0.08 MPa;

< 0.5 kg/m<sup>2</sup>;

cat. II

cat.III

B-s1, d0

**Reaction to fire:**

### AREAS OF APPLICATIONS

**KABE THERM MARMURIT / MOZAIKER** EWI system is a system of insulating external walls of buildings based on EPS. It is applied in single- and multi-family housing construction industry, public utility and industrial buildings, both in new build and existing (retrofit) building walls to the height of up to 25 m (for the buildings erected before 1 April 1995 to the height of eleventh story inclusively) with a top layer in the form of mosaic renders. The system can be applied on all typical mineral substrates (such as e.g.: concrete, cement render, cement-lime render, sandstone and on raw walls made of bricks, blocks, concrete blocks and other ceramic or silicate materials of that type) as well as on substrates covered by well adhering facade paint coating or thin-coat render. The external layer of the system can be made using structural mosaic renders applied manually by **MARMURIT** and **MOZAIKER DECOR** and machine-applied **MOZAIKER AKORD**.

Layer type	Name and description of the product	Average coverage
ADHESIVE LAYER	<b>KOMBI S adhesive, KOMBI base coat or KOMBI RAPID polyurethane adhesive</b>	ca. 4.0 kg/m <sup>2</sup> ca. 1.6 pack/m <sup>2</sup>
THERMAL INSULATION	<b>White or graphite EPS boards with the code EPS-EN 13163-T(2)-L(2)-W(2)-S(5)-P(5)-BS75-DS(N)2-DS (70,-)2-TR80 - MU20</b> – cured EPS thermal insulation boards	1.0÷1.10 m <sup>2</sup> /m <sup>2</sup>
	<b>Mechanical fixings (optionally)</b> – pins for fixing thermal insulation to the substrate	Type, quantity and layout as per technical plan
REINFORCING COAT	<b>KOMBI base coat</b> – for applying reinforcing layer	ca. 4.0 kg/m <sup>2</sup>
	<b>Reinforcing fibreglass mesh: KABE 145, KABE 150, KABE 160, KABE 165</b> – anti-alkali impregnated mesh, completely immersed in <b>KOMBI</b> base coat	1.10 m <sup>2</sup> /m <sup>2</sup> of thermal insulation
FINISH COAT	<b>MARMURIT GT primer</b> – a product that improves adhesion and limits the substrate water absorbency	ca. 0.20 l/m <sup>2</sup>
	<b>External coat of render: MARMURIT, MOZAIKER AKORD, MOZAIKER DECOR</b> – protective and decorative layer that protects the system against adverse weather conditions and mechanical damage; colour of the render to be chosen	grain size 1.0 mm – 2.5 kg/m <sup>2</sup> grain size 1.5 mm – 4.0 kg/m <sup>2</sup> grain size 0.8 mm – 2.6 kg/m <sup>2</sup> (AKORD) grain size 0.8 mm – 1.9-3.8 kg/m <sup>2</sup> (DECOR depending on the colour)

\* Depending on the render type.

Note: Due to the excessive heating of dark-coloured facades, it is not recommended to use colours featuring a low light reflection coefficient (Y<20%).

The manufacturer provides a guarantee only when used with a complete EWI system (all components) in accordance with the "Guarantee card for EWI systems".