

## EPS-BASED

# KABE THERM MARMURIT COLORATO / MOZAIKER COLORATO

## SYSTEM CONSTRUCTION



EWI system for buildings with mosaic external render

### MAIN ADVANTAGES

- Reduction of building heating costs
- Improved microclimate inside the building
- Attractive decorative effects and high aesthetics of the façade, that imitates natural stone cladding
- Wall protection against adverse weather conditions
- Easy and quick application of spray render
- A wide range of colour compositions

### TECHNICAL DATA

**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

**Thickness of thermal insulation:** from 5 to 30 cm inclusively;

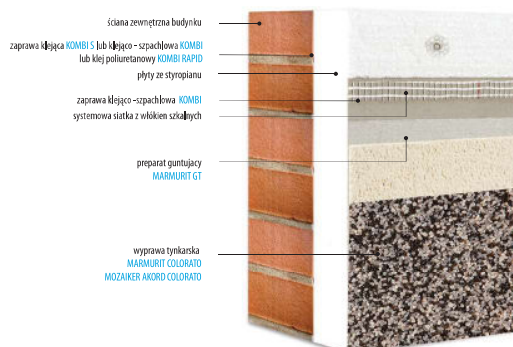
**Thermal insulation fixing:** bonding system with additional mechanical fixing or mechanical fixing with additional bonding;

**Use of mechanical fixings:** as specified in technical design;

**Reinforcing mesh:** system reinforcing fibreglass mesh;

**Fire classification:** non-fire spreading system (NRO);

**Render colours:** according to the MARMURIT COLORATO and MOZAIKER AKORD COLORATO colour charts;



**Textures:** solid;

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

**Adhesion:**

- to concrete
- to EPS

≥ 0.25 MPa;

≥ 0.08 MPa;

**Adhesion after surface layer ageing:**

≥ 0.08 MPa;

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

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

**Impact resistance for the system with the mosaic render**

cat. III

### AREAS OF APPLICATION

The **KABE THERM MARMURIT COLORATO / MOZAIKER COLORATO** EWI system is an EPS-based thermal insulation system for external walls with mosaic finish render. It is applied in single- and multi-family housing construction industry, public utility and industrial buildings – in both the existing and new constructions – to the height of up to 25 m (for the buildings erected before 1 April 1995 to the height of eleven story, inclusive). The system can be used on walls made of fine masonry components (bricks, blocks, stone, etc.) or concrete (monolithic or prefabricated elements). It is also possible to use it on horizontal or inclined surfaces, that are not exposed to precipitation.

The external layer of the system can be made using **MARMURIT COLORATO** structural mosaic renders applied manually and the machine-applied **MOZAIKER AKORD COLORATO**.

Layer type	Name and description of the product	Average coverage
ADHESIVE LAYER	<b>KOMBI S adhesive or KOMBI adhesive/base coat or KOMBI RAPID polyurethane adhesive</b>	approx. 4.0 kg/m <sup>2</sup> approx. 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</b> – cured EPS thermal insulation boards	1.0-1.10 m <sup>2</sup> /m <sup>2</sup>
	<b>Mechanical fixings</b> – pins for fixing thermal insulation to the substrate	Type, quantity and layout as per technical design
REINFORCING LAYER	<b>KOMBI adhesive/base coat</b> – for applying reinforcing layer	approx. 4.0 kg/m <sup>2</sup>
	<b>System 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>Primer: MARMURIT GT,</b> – a product that improves adhesion and limits the substrate water absorbency	approx. 0.20 l/m <sup>2</sup>
	<b>External coat of render: MARMURIT COLORATO, MOZAIKER AKORD COLORATO</b> – protective and decorative layer protecting against adverse weather conditions and mechanical damage; render colour to choose	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)

\* Depending on the render type

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

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

The information included in this document does not cover all the aspects of the product system use. Therefore, the information should be verified each time due to the possibility of justified differences depending on the method of carrying out work, the type of substrate and other external conditions.