

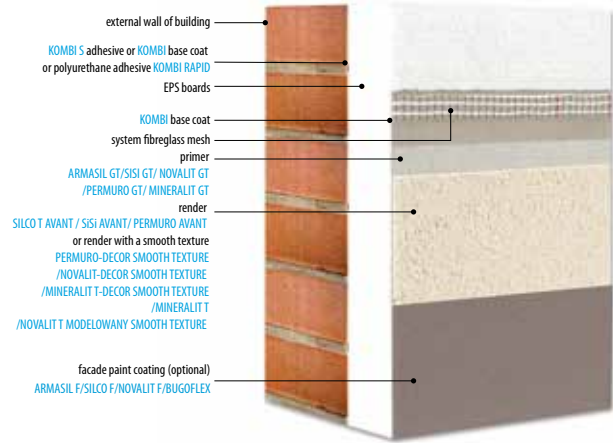
EPS BASED

KABE THERM AVANT



External wall insulation system with silicone, silicate silicone and acrylic external render and decorative coatings with a smooth texture

SYSTEM CONSTRUCTION



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
- Anti-fungal and algae protection
- Option to use facade paints available in a wide range of colours

TECHNICAL SPECIFICATION

Type of thermal insulation: EPS boards with the following code: EPS-EN 13163-T(1)-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 fixings: bonding or bonding and mechanical fixing;

Use of mechanical fixings: optional (as specified in technical design);

Reinforcing mesh: reinforcing fibreglass mesh;

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

Colours: natural white and colours according to KABE chart, NCS or a sample provided;

Textures: solid/grained;

Grain size: 1.5 mm; 2.0 mm;

Adhesion:

- to concrete
- to EPS

≥ 0.25 MPa;

≥ 0.08 MPa;

≥ 0.08 MPa;

< 0.5 kg/m²;

cat.II

cat.III

B-s1,d0

Adhesion after aging of the surface layer:

Water absorption (after 24 hours):

Impact resistance for the system with PERMURO AVANT acrylic render :

- other systems

Reaction to fire:

AREAS OF APPLICATIONS

KABE THERM AVANT 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). It is especially recommended for investments where costs and a smooth decorative texture are important. The system can be applied on walls made of masonry elements (such as e.g.: bricks, blocks, stone etc.) or from concrete (poured on site or in the form of prefabricated panels). The system can be used on new walls as well as for renovation of the existing ones. It is also possible to use it on horizontal or inclined surfaces that are not exposed to precipitation. The external system layer can be made by using **SISI T AVANT** silicone renders, **SISI AVANT** structural silicate-silicone render **PERMURO AVANT** acrylic render available in a wide range of colours. In addition, it is possible to make a top coat with a smooth texture in the system with **PERMURO-DECOR SMOOTH TEXTURE**, **NOVALIT T-DECOR SMOOTH TEXTURE**, **MINERALIT T-DECOR SMOOTH TEXTURE** and **MINERALIT T/NOVALIT T MODELLED-DECOR SMOOTH TEXTURE**.

Layer type	Name and description of the product	Average coverage
ADHESIVE LAYER	KOMBI S adhesive or KOMBI base coat or polyurethane adhesive KOMBI RAPID	ca. 4.0 kg/m ² ca. 1/6 pack/m ²
THERMAL INSULATION	White or graphite EPS boards with the code EPS-EN 13163-T(1)-L(2)-W(2)-S(5)-P(5)-BS75-DS(N)2-DS(70,-)2-TR80 – cured EPS thermal insulation boards	1.0÷1.10 m ² /m ²
	Mechanical fixings (optionally) – pins for fixing thermal insulation to the substrate	Type, quantity and layout as per technical plan
REINFORCING COAT	KOMBI base coat – for applying reinforcing layer	ok. 4.0 kg/m ²
	Reinforcing fibreglass mesh: KABE 145, KABE 150/ KABE AVANT 150, KABE 160, KABE 165/ KABE AVANT 165 – anti-alkali impregnated mesh, completely immersed in KOMBI base coat	1.10 m ² /m ² of thermal insulation
FINISH COAT (RENDER OR DECORATIVE EFFECT)	Primer: ARMASIL GT, SISI GT, NOVALIT GT, PERMURO GT, MINERALIT GT – a product that improves adhesion and limits the substrate water absorbency	ca. 0.20 l/m ²
	External coat of render: SILCO T AVANT, SISI AVANT, PERMURO AVANT – protective and decorative layer that protects the system against adverse weather conditions and mechanical damage; colour of the render to be chosen	grain size 1.5 mm – 2.4÷2.5kg/m ² * grain size 2.0 mm – 3.0 kg/m ²
	External coat of render with smooth texture: PERMURO-DECOR SMOOTH TEXTURE, NOVALIT T-DECOR SMOOTH TEXTURE, MINERALIT T-DECOR SMOOTH TEXTURE, MINERALIT T/NOVALIT T MODELLED-DECOR SMOOTH TEXTURE.	from 4.3-4.5 kg/m ² *
	ARMASIL F, SILCO F, NOVALIT F, BUGOFLEX facade paint coating (optional) – protective and decorative layer protecting against adverse weather conditions and giving an attractive colour	from 0.36 l/m ² (when applied twice, depending on the thickness of the render grain)

* 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".