

EPS BASED

KABE THERM EPS



External wall insulation system with silicone, polysilicate, acrylic and mineral external render and renders for spray application of the AKORD line.

MAIN ADVANTAGES

- Reduction of heating costs
- Interior micro-climate improvement
- Protection of walls against the impact of adverse atmospheric conditions
- Anti-fungal and algae protection
- A wide range of types, colours and decorative effects of renders
- Possibility to use renders for spray application of the AKORD line

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,-)J2-TR80 - MU20-40 or MU30-70

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;

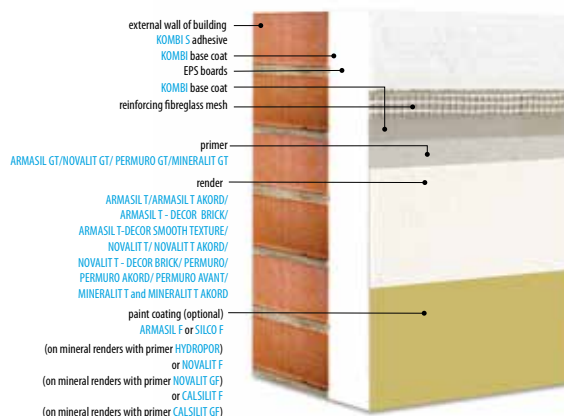
Fire classification: non-fire spreading system (NRO);

Colours: natural white and colours according to KABE chart, NCS or a sample provided (for NOVALIT T AND ARMASIL T render only in colours that can be obtained by using non-organic pigments);

Textures: solid/ scraped/mixed texture (ARMASIL T renders only solid/grained texture);

Grain size: 1.5 mm; 2.0 mm; 2.5 mm; 3.0 mm (for PERMURO AKORD render only grain size of 1.5 mm and 2.0 mm); ARMASIL T AKORD and NOVALIT T AKORD and MINERALIT T AKORD render only grain size of 1.5 mm

SYSTEM CONSTRUCTION



- Adhesion:**
- to concrete ≥ 0.25 MPa;
 - to EPS ≥ 0.08 MPa;
- Adhesion after ageing, top layer:** ≥ 0.08 MPa;
- Water absorption (after 24 hours):** < 0.5 kg/m²;
- Impact resistance for the system with render:**
- ARMASIL T, ARMASIL T AKORD, ARMASIL T - DECOR BRICK, NOVALIT T, NOVALIT T AKORD, NOVALIT T - DECOR BRICK, PERMURO, PERMURO AVANT cat. II
 - ARMASIL T - DECOR SMOOTH TEXTURE, PERMURO AKORD, MINERALIT T, MINERALIT T AKORD cat. III

AREAS OF APPLICATIONS

KABE THERM EPS 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, to the height of up to 25 m (for the buildings erected before 1 April 1995 to the height of eleventh story inclusively) and in frame construction. Because of its simple installation technology and low implementation costs it is most frequently used for the thermal upgrade of buildings constructed in old energy-consuming technologies (non-compliant with applicable thermal insulation requirements). 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 which ensure proper drainage of rainwater and snow without causing their retention. The external system layer can be made by using ARMASIL T, ARMASIL T AKORD, ARMASIL T - DECOR SMOOTH TEXTURE, ARMASIL T - DECOR BRICK, PERMURO, PERMURO AKORD, PERMURO AVANT, NOVALIT T - DECOR BRICK polysilicate renders, NOVALIT T, NOVALIT T AKORD, NOVALIT T - DECOR BRICK polysilicate renders, PERMURO, PERMURO AKORD, PERMURO AVANT - acrylic renders and MINERALIT T and MINERALIT T AKORD mineral renders available in a wide range of colours and textures and in the wood/board effect. After wetting the silicone ARMASIL T render, the effect of water molecules' being repelled' by silicone resin is observed on its surface. It means that water absorption is greatly reduced and the facade is protected against dirt/dust due to its self-cleaning properties.

Layer type	Name and description of the product	Average coverage
ADHESIVE LAYER	KOMBI S adhesive, KOMBI base coat	ca. 4.0 kg/m ² **
THERMAL INSULATION	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,-)J2-TR80 - MU20-40 or MU30-70 – 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	ca. 4.0 kg/m ²
	KABE 145, KABE 160 reinforcing fibreglass mesh – anti-alkali impregnated mesh, completely immersed in KOMBI	1.10 m ² /m ² of thermal insulation
FINISH COAT	ARMASIL GT, NOVALIT GT, PERMURO GT, MINERALIT GT primer / dedicated to the same type of plaster /: – a product that improves adhesion and limits the substrate water absorbency	ca. 0.20 l/m ²
	External coat of render: ARMASIL T, ARMASIL T AKORD, ARMASIL T - DECOR BRICK, ARMASIL T - DECOR SMOOTH TEXTURE, NOVALIT T, NOVALIT T AKORD, NOVALIT T - DECOR BRICK, PERMURO, PERMURO AKORD, PERMURO AVANT, MINERALIT T and MINERALIT T AKORD – 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 – 2.3 ÷ 2.5*** kg/m ² grain size 2.0 mm – 3.0 kg/m ² grain size 2.5 mm – 3.7 kg/m ² grain size 3.0 mm – 4.5 kg/m ²
OPTIONAL PAINT COAT ON RENDERS FOR SPRAY APPLICATION	Paint coating ARMASIL F or SILCO F (on mineral renders with primer HYDROPOR), or NOVALIT F (on mineral renders with primer NOVALIT GF), or CALSILIT F (on mineral renders with primer CALSILIT GF) – protective and decorative layer protecting against adverse weather conditions and giving an attractive colour	from 0.36 l/m ² (when applied twice and depending on the render grain size)

*** 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".