

ADETHERM EPS 100- 6/8/10/12/14



Insulating panel made of white polystyrene foam for over-coated thermal insulation systems.

Technical characteristics

ADETHERM EPS 100 is the insulating panel made of white polystyrene foam with improved lambda, for over-coated insulation systems. Its light weight makes it easy to transport and install. When properly installed, ADETHERM EPS 100 allows the achievement of the living comfort standards required today and the improvement of living, performance, economic and environmental characteristics in existing and newly constructed buildings.

Applications

In over-coated insulation systems, it is the fundamental element for the thermal insulation given by the system.

Substrate preparation

The substrate must be clean, solid, without grease, oils, paints, etc. and sufficiently dry and cured. Any lack of vertical and/or horizontal flatness must be restored before bonding the insulating panels.

Application

Any lack of wall verticality and/or vertical/horizontal flatness must be properly restored before bonding the insulating panels. Before bonding, evaluate the arrangement of the panels to be used above all in particular points such as corners, niches, cutouts and particular shapes of the building.

For the installation of ADETHERM EPS 100 on lightly irregular or raw substrates, apply the adhesive in seam and spots on the panel back side by trowel or squeegee with the thickness required by the flatness of the surface and by the weight/size of the panel, considering that the thickness of the adhesive must be as constant as possible to avoid problems on the finished work. For the installation on regular surfaces, apply the adhesive by a notched trowel on the entire back side of the panel; then, install it before the adhesive starts forming the surface film. Panels must be perfectly positioned nearby to prevent joints or thermal bridges. Panels are bonded upwards with staggered joints, positioning the longest side horizontally. Press the panel evenly on the substrate, moving it slightly to ensure a correct adhesive distribution. The slab must not be subject to stresses for at least 48 hours after its positioning. All panels must be bonded with suitable dowels arranged with a proper scheme, at least 6 every m².

Technical data

Appearance	PVC panel
Colour	white
Panel length	1.00 m
Panel width	0.50 m
Panel thickness	60 / 80 / 100 / 120 / 140 mm
Storage	Store in the original packaging, in a dry place and away from sunlight.
Flammability	Euroclass E

Application data

Tensile strength perpendicular to the surfaces	> 100 kPa
Long-term water absorption, total immersion	< 3%
Long-term water absorption, partial immersion	< 0.2 kg/m ²
Resistance to water vapour diffusion (μ)	20 - 40
Thermal conductivity (λ_d)	0.036 W/mK
Specific thermal capacity (C_p)	1500 J/kgK
Thermal expansion coefficient	65x10 ⁻⁶
Limit use temperature	75°C
ADETHERM EPS 100 packages	Packages 0.30 m ³ / 5.00 m ² (thck. 60 mm) Packages 0.28 m ³ / 3.50 m ² (thck. 80 mm) Packages 0.30 m ³ / 3.00 m ² (thck. 100 mm) Packages 0.30 m ³ / 2.50 m ² (thck. 120 mm) Packages 0.28 m ³ / 2.00 m ² (thck. 140 mm)

Warning: The above indications and rules correspond to our best experience, but shall be deemed as merely indicative and shall be confirmed by exhaustive practical tests; thus, before using the product, the operator shall determine if it is suitable for its intended use and shall undertake every responsibility resulting from its use. PROFESSIONAL USE ONLY.