THERMOPLUS 120

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Thermal insulation panel

EPS INSULATION PANEL (SINTERED EXPANDED POLYSTYRENE) WITH GRAPHITE, FOR EXTERNAL THERMAL INSULATION SYSTEMS.

DESCRIPTION

Thermoplus 120 is a sintered expanded polystyrene panel, cut from a block, obtained with the use of virgin granulate and post-consumer material in the minimum quantity of 10%. The raw material, expanded and sintered in modern systems and additive with flame retardant, it meets the requirements of the Ministerial Decree of 11 October 2017 (Minimum Environmental Criteria - CAM). Thermoplus 120 insulating sheets are in Euroclass E, they are unassailable from mold and have good vapor permeability.

LIMITATIONS

· Thermoplus 120 panels must be stored, even on site, protected by their original packaging, in a dry place, away from sunlight and other heat sources.
· Do not glue the insulating panels on degraded substrates or inconsistent plasters.
· Do not use on dehumidifying plasters or on walls subject to capillary rising.
· To ensure correct adhesion to the masonry, do not apply with ambient and substrate temperatures below + 5 ° C or higher than + 35 ° C.
· Do not use damaged or dirty panels.

FIELD OF APPLICATION

· Creation of external insulation systems with insulating panels compliant with the Minimum Environmental Criteria for Building, provided for by the Ministerial Decree of 11 October 2017.
· Use as suitable insulating material in energy redevelopment projects in public and private buildings.
· Insulation sheet ideal for external thermal insulation systems
· Suitable for existing and new buildings, usable indoors and outdoors.

APPLICATION PROCEDURE

Preparation of the substrate
The substrate must be compact, resistant, free of dust and free from incoherent parts, greases, oils, glues, etc. It is recommends eliminating any significant unevenness in cement surfaces using a leveling mortar for interiors and exterior or cementitious adhesive mortar. The plaster supports, before proceeding bonding of thermal insulation panels, must be treated with DCI Grip Primer.

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Laying the slabs
The slabs must be fixed directly on the reverse using cementitious adhesives. In case of plastered and flat support with a 10 mm notched trowel over the entire surface, or with a curb points if there is no flatness of the masonry. The installation of the panels must take place starting from the bottom upwards, Thermoplus 120 insulation panel, for thermal insulation systems a coat placing them with the longer side in a horizontal position, staggering the vertical joints by at least 25 cm. In correspondence of the edges, the heads of the panels must be alternated. After installation, press the panels well so to ensure good adhesion to the substrate by checking the flatness with a straightedge.

Application of base coat
The smoothing of the panels must be carried out after complete drying of the adhesive, considering the conditions climatic, spreading the smoothing mixture on them in uniform thickness and incorporating the fiberglass mesh alkali resistant. The mesh must be pressed onto the fresh adhesive with a smooth trowel and the adjacent sheets must overlap by at least 10 cm. After 12-24 hours apply a second coat of smoothing to obtain a compact and regular surface suitable for receiving the finishing coating, which must be applied only when the smoothing compound is well hardened and cured.

COVERAGE / CONSUMPTION

The consumption of Thermoplus 120 is 1m²/m².

PACKAGING

Thermoplus 120 is supplied in:
– 1m x 50 cm panel.

SHELF LIFE-STORAGE

Original sealed packaging of this product is guaranteed to be of first quality for 12 months if stored in a dry area and temperatures between +5°C and +35°C.

SAFETY INSTRUCTION

Thermoplus 120 is not considered hazardous according to current standards and regulations regarding the classification of mixtures. While handling the product, we recommend the use of protective gloves and goggles and to keep the work area well ventilated. For further and complete information about the safe use of our product please refer to our latest version of the Material Safety Data Sheet. PRODUCT FOR PROFESSIONAL USE.

TECHNICAL DATA

Product identity			
Standard	Characteristic	Norm EN 13163	Valore
EN 12667	Thermal conductivity declared	λ	0,035 W/(m·K)
EN 822	Width tolerance	W2	± 2 mm
D EN 822	Length tolerance	L2	± 2 mm
EN 823	Thickness Tolerance	T1	± 1 mm
EN 824	Orthogonality	S2	± 2/1000 mm/mm
EN 825	Planarity	P5	± 5 mm
EN 1603	Dimensional stability under normal conditions	DS (N)	± 0,2 %
EN 1607	Tensile strength perpendicular to the faces	TR	≥ 150 kPa
EN 13501-1	Reaction to fire	E Euroclasse	
EN 12087e	Water absorption by partial and long-term immersion	E	W ≤ 0,5 kg/m²
EN 12524	Specific heat capacity	C	1260 J/(kg·K)
	Coefficient of linear thermal expansion	K	65·10 $^{-6}$

Thickness (mm)	20	40	50	60	70	80	100
R_D (m²K/W)	0.65	1.29	1.61	1.93	2.25	2.58	3.22

EMISSION CLASS FOR BUILDING MATERIAL
M1

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