



ATLATHERM



ATLATHERM PS FIBER

Fiber-reinforced adhesive for thermal insulation panels



- Suitable for bonding and coating all types of thermal insulation panels
- Reinforced with fibers
- Strong initial and final bonding strength
- High thixotropy and zero creep
- Large window of pasting time - workability
- Suitable for a variety of substrates
- Long-term stress resistance



DESCRIPTION

ATLATHERM PS FIBER is a fiber-reinforced, cementitious adhesive, suitable for the installation, smoothing and coating of thermal insulation panels of expanded (EPS) or extruded (XPS) polystyrene, polyurethane and mineral wool placed on building facades and floors. It is reinforced with special polymeric components (resins) that give it a strong initial and final adhesive strength. It is characterized by high adhesion and strong resistance to shear stresses, thus guaranteeing sufficient strength for many decades. Suitable for all common substrates, such as: concrete, plaster, bricks, concrete blocks, etc. Suitable for indoor and outdoor use on vertical or horizontal surfaces, with zero creep and a long window of application.

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CERTIFICATES

Certified with CE marking. Classified as GP CS IV, type mortar according to EN 998-1. It is an integral part of the ATLATHERM SYSTEM external thermal insulation system.

APPLICATION SCOPE

ATLATHERM PS FIBER is used for the bonding of thermal insulation panels made of extruded or expanded polystyrene, mineral wool, polyurethane, cork, etc. on building facades and floors. In addition, when reinforced with fiberglass mesh, it is used for the coating of the thermal insulation panels and thus constitutes the ideal substrate for the plaster that will follow. Is used in combination with ATLATHERM PL ETICS, ATLATHERM PL FLEX, ATLATHERM SILICONE PLASTER and ATLATHERM SILICATE PLASTER as a system for the external thermal insulation of buildings.

It is applied on a variety of substrates such as:

- Concrete and brickwork
- Coatings and mortars for masonry
- Cement boards and plasterboards (with a suitable primer)
- Masonry with bricks

METHOD OF USE

1. PREPARING THE SURFACE

Surfaces must be stable, clean and free of grease, paint and loose materials. Before use, wet the surface with water. On all substrates, before the application of the thermal insulation panel, priming with ATLABOND QUARTZ PRIMER is recommended.

2. APPLICATION

a) AS ADHESIVE

Mix ATLATHERM PS FIBER in water using a low-speed mixer until a homogeneous, pasty mixture is

obtained. Allow the mixture to settle for about 5 minutes and stir again.

On smooth surfaces, apply the adhesive to the insulation panel and use a notched trowel to distribute it evenly over the surface.

On uneven surfaces, apply the adhesive with a trowel on the perimeter of the insulation panel and in selected points in the center of the panel.

Then press the insulation panels in the desired position.

b) AS REINFORCED MORTAR

First, apply the product with a notched trowel to a maximum thickness of 3-4mm. While the coat is still wet, place the fiberglass mesh and press it with a smooth spatula so that it is placed deep inside the adhesive. Finally, smooth the surface and remove any excess adhesive.

QUANTITY REQUIRED

a) AS ADHESIVE

For spot bonding: 2-4 kg/m²

For uniform distribution across the entire width of the insulation panel: 3-4kg/m² depending on the size of the trowel notches and the type of substrate.

b) AS REINFORCED MORTAR

Approx. 1.4 kg/m²/mm. Recommended thickness: 4mm in two coats with the integration of ATLACOLL THERMONET mesh.

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TECHNICAL CHARACTERISTICS

Property	Value	Standard
Form	cementitious mortar	
Color	white	
Water demand	5,5 - 6,0 Lt / bag 25 kg	
Dry bulk density of hardened mortar	1350 kg/m ³	EN 1015-10: 1999
Flexural strength	4,8 N/mm ²	EN 1015-11:2019
Compressive strength	7,6 N/mm ²	EN 1015-11:2019
Classified as CS IV ≥ 4 for compressive strength	CS IV	EN 998-1
Adhesive Strength	1,0 \pm 0,2 N/mm ²	EN 1015-12:2016
Water absorption coefficient due to capillary action of hardened mortar	0,8 kg/(m ² min ^{0.5})	EN 1015-18:2002
Capillary water absorption	W1	EN 1015-18:2002
Thermal conductivity	0,402 W/m.K	BDS EN 1745:2020
Water vapor permeability (λ)	1,492 x 10 ⁻¹¹ kg/m ² ·s·Pa-	BDS EN 1015-19:2001
Water vapor diffusion coefficient	13 kg/m ² ·s·Pa-	A1:2006
Reaction to fire classification	A1	EN 13501-1
Adhesion to expanded	$\geq 0,1$	EN 13494
Pot life	at least 6 h	
Apparent dry mortar weight	1,50 \pm 0,10 kg/l	
Apparent wet mortar weight	1,65 \pm 0,10 kg/l	
Adhesion to concrete	$\geq 1,0$ N/mm ²	

CLEANING

Tools, containers and any adhesive residues on surfaces can be cleaned with water and if necessary with soap or detergent while ATLATHERM PS FIBER is still wet. After curing, use only mechanical means.

LIFETIME - STORAGE

12 months from the date of production if kept in closed bags and stored in a dry environment, protected from moisture and frost.

RECOMMENDATIONS

Avoid application:

- at temperatures lower than +5°C and higher than +35°C;
- in single coats of increased thickness;
- on wooden and metal surfaces;
- on polyurethane or acrylic surfaces, and generally on substrates subject to high vibrations or displacements;
- in bituminous felts, PVC membranes and general materials that polymerize over time;
- on loose substrates or substrates which have not sufficiently hardened;
- on non-absorbent substrates without adequate preparation;
- on existing expansion joints in the substrate;
- in rain or frost conditions in the first 24 hours;
- when strong winds and/or intense solar radiation conditions prevail.

Please bear in mind:

- Do not add cement, plaster, lime or other materials that may affect the properties of the mortar.
- Do not exceed the recommended amount of water, as this will reduce the strength of the mortar.

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- Do not add water to correct the workability of the mortar.
- it is recommended to prime very porous surfaces, such as aerated concrete, plasterboard, chipboard etc., with acrylic solvent-based primer ELVIDUR PRIMER or water-based primer MURADUR UNIVERSAL MICRO PRIMER.
- If the adhesive becomes coarse before the installation of the thermal insulation panel, remove it and apply a fresh one.
- The product must be applied by a professional user.

PACKAGING

Available in paper bags of 25 Kg in 1,600 Kg pallets.

SAFETY INSTRUCTIONS

For instructions on safe handling, see the container label. For detailed instructions on the hazards regarding storage, disposal, and safe use, please refer to the latest Safety Data Sheet which contains ecological, toxicological and other data on safety when handling the product.

Poison Center for GREECE: 210 7793 777 / for CYPRUS 1401.

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