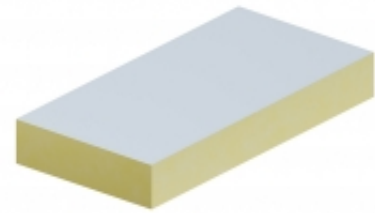


Alsitherm PUR 024

Polyurethane insulation board for alsecco facade insulation systems



AREAS OF APPLICATION

PUR facade insulation board in accordance with DIN EN 13165 for adhesive fixing or adhesive and mechanical (plug) fixing.

Also suitable for wall-base (plinth) areas.

Application type: PU WAP in accordance with DIN 4108-10.

PRODUCT PROPERTIES

- Dimensionally stable and no shrinking
- Toxicologically harmless; CFC, HCFC, HBCD and HFC free
- Very good render adhesion
- coated on both sides
- Quality-controlled in accordance with DIN EN 13165

TECHNICAL DATA

Fire behavior E according to DIN EN 13501-1

Thermal conductivity λ Rated value according to DIN 4108-4 in the application above top ground surface

Insulation material thickness	Thermal conductivity
20 to 70 mm	0,026 W/mK
80 to 110 mm	0,025 W/mK
120 to 300 mm	0,024 W/mK

Water vapour diffusion resistance μ 65 according to DIN EN 12086

Tensile strength at right angles to ≥ 100 kPa

board	
Water absorption	≤ 1,5 % v/v acc. to DIN EN 12087 for long-term total immersion
Density	30 - 37 kg/m ³
Formats	1.000 x 500 mm Edges: Square

APPLICATION INSTRUCTIONS

Substrate pre-treatment All substrates must be sound, even (DIN 18202 or 18203, as applicable), clean and free from adhesion-reducing residue.

If appropriate, pre-treat substrates as stipulated in the instructions for the adhesive specified for the area of application.

Application

Installation as part of an external thermal insulation composite system:

Alsitherm PUR 024 must be installed as a single layer and butted tightly together, with the vertical joints staggered, and it must lie flat against the substrate. Cross joints should be avoided.

The profiles are bonded to the substrate using the bonding method specified for the particular application and the bonding mortars suitable and specified for this, i.e. Armatop Solid, Armatop AKS, Armatop X-press or Thermastick MK.

The adhesive is applied using the spot-and-bead method. The adhesive must cover at least 40 % of the contact area for a reliable bond.

If the adhesive mortar is applied to the wall using the specified partial bonding method, at least 60 % of the contact area must be covered for a reliable bond.

If the substrate is very smooth, the adhesive may be applied using the ridged-bed method.

The vertical and horizontal joints of the boards must always be kept free of adhesive.

If the substrates are not suitable for adhesive fixing, mechanical fixing must be used in accordance with the general building inspectorate approval for the insulation material in question.

The butt joints of insulation boards must not be positioned above the areas where different components meet (e.g. ring beams, shutter boxes, structural joints). The insulation materials should extend at least 10 cm beyond such areas, without a joint, and be securely bonded to both sides.

Open joints < 0.5 cm wide between the insulation boards must be closed with Filling Foam B1; larger joints must be closed with strips of an equivalent insulation material.

Only Armatop Solid with a layer thickness of 4.0 - 6.0 mm and with Mesh 32, or Armatop SL with a layer thickness of 5.0 - 7.0 mm and with Universal-Aero Mesh may be used as reinforcement on the facade insulation board.

Installation as part of a wall-base system:

In the rendered, visible plinth area, the insulation boards are essentially installed in the same way as for an ETICS. The adhesive (not bitumen adhesive) is therefore applied to create a close bond with the substrate using the spot-and-bead method

so that the adhesive covers at least 40 % of the contact area, or using the ridged-bed method. This type of fixing can also be used for areas in contact with the ground up to approx. 20 cm above top ground surface if the insulation boards are part of a rendered wall-base system.

The insulation material in contact with the area below top ground surface must be given additional moisture protection at the interface with the structural waterproofing system or where it meets the existing perimeter insulation.

Thick layers of adhesive must be avoided so that there are no visible transitions where high-shrinkage types of adhesive or bonding methods are used.

The insulation boards are installed with the vertical joints staggered by at least 10 cm. The insulation material must be dovetailed at the corners of the building.

Information for the Application plinth area

The plinth surfaces where Alsitherm PUR 024 boards are to be installed must be protected against water ingress with structural waterproofing that complies with DIN 18533-1 unless they do not require an additional protective cover due to the construction method or design used.

Installation as wall-base (plinth) insulation is permissible if exposure to water is rated as W4-E in accordance with DIN 18533-1.

Damaged insulation boards must not be installed.

Unrendered insulation boards must be protected against moisture and coated with reinforced base-coat render as soon as possible, or covered with a suitable import fill. A protective layer must be installed if it is not possible to exclude the possibility of the Alsitherm PUR 024 boards being damaged when a foundation pit is being filled in.

Suitable measures must be taken to ensure that flow paths for water are not created behind the layer of insulation (e.g. due to water flowing on the site surface or rainwater running off the facade).

We recommend clearly separating the wall-base and facade insulation by offsetting the wall base so that the most suitable combinations of material can be used as well as permitting independent facade refurbishment intervals to be applied.

The wall-base board can also be installed so it is flush with the facade.

Any render extending to ground level and therefore in contact with or penetrating into the ground must be given a coat of moisture-proofing paint that is approved for use with the system build-up and that reaches up to approx. 5 cm above top ground surface.

STORAGE

Dry, protected against moisture and sunlight.

PACKAGING INFORMATION

Colour	Yellow
Packaging unit	Please also refer to the current product range

OTHER INFORMATION

Information on safety	The information contained in the current safety information sheet applies.
Transportation	Not a hazardous material
Waste code	17 06 04(class II waste disposal, household and construction waste disposal)

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The above information is based on many years of experience and tests and is provided by us to the best of our knowledge. Such information applies in addition to our application guidelines. However, we cannot accept any responsibility for the correctness of our recommendations on account of wide variety of substrates and of on-site conditions and applications which are outside our control. Any recommendations provided by our employees and deviating from these documents must be given in writing. We reserve right to make any changes on account of technical progress or building regulations. Your technical advisor will be pleased to provide the relevant product data sheets.

