



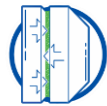
ATLAS GRAWIS P

graphite foam adhesive for thermal insulation

- for gluing white and graphite expanded polystyrene and other thermal insulation materials
- for filling gaps between thermal insulation materials
- for layer sealing installation of window and door frames
- high thermal insulation $\lambda = 0.034 \text{ W/mK}$
- minimum level of expansion and post-expansion
- board adjustability time: 12 minutes
- dowel fixing after only 2 hours
- for indoor and outdoor application
- excellent adhesion to all construction substrates
- yield $\leq 15 \text{ m}^2$



HIGH
THERMAL
INSULATION



MINIMUM LEVEL
OF EXPANSION
AND POST-EXPANSION



BOARD
ADJUSTABILITY TIME:
12 MINUTES



DOWEL FIXING
AFTER ONLY
2 hours



FOR INDOOR
AND OUTDOOR
APPLICATION



EXCELLENT ADHESION
TO ALL CONSTRUCTION
SUBSTRATES

Properties

ATLAS GRAWIS P foam adhesive is a single-component polyurethane adhesive used in thermal insulation of buildings for fixing white and graphite expanded polystyrene boards and XPS boards. It is also used for gluing other thermal insulation materials and façade finishing elements (except ATLAS thermal insulation systems).

High thermal insulation - $\lambda = 0.034 \text{ W/mK}$.

Dowel fixing after only 2 hours - mechanical anchors can be installed after a time 24 times shorter compared to traditional cement adhesives.

Extended adjustability time - the position of the boards can be adjusted within 12 minutes.

Minimum level of expansion and post-expansion - allows for the installation of boards in one work process without the need to make adjustments.

For indoor and outdoor use.

Excellent adhesion to boards during application - minimizes the risk of the foam adhesive being torn off the board surface by intense wind or as a result of hitting, for example, scaffolding.

28 times faster bonding - compared to traditional cement adhesives.

High one package yield:

- for façades up to 10 m^2 ,
 - for foundations up to 15 m^2 ,
- (measured for a bead diameter of 2-3 cm; the final yield depends on the temperature, humidity and application method).

Intended use

For use in ETICS systems, in particular for:

- fixing (white and graphite) EPS boards,
- gluing unstable boards,
- gluing insulation boards to aprons in layer sealing installation of windows,
- fixing insulating materials in the plinth zone and to foundation walls, including those insulated with bituminous and mineral coatings.

Recommended for the insulation of passive and low-energy buildings - for the thermal insulation of new buildings as well as for the thermal rehabilitation and renovation of existing buildings.

Gluing window sills.

Installing façade stucco.

It can also be applied on sloping surfaces, in arcades, on sloping pillars, etc.)

TYPES OF FIXED ELEMENTS

EPS boards – white expanded polystyrene	+
EPS boards – graphite expanded polystyrene	+
XPS boards – made of extruded polystyrene	+
PIR boards and PIR boards with aluminium coating (except ATLAS thermal insulation systems)	+
polyurethane boards (PUR) (except ATLAS thermal insulation systems)	+
resol hard foam insulation boards (except ATLAS thermal insulation systems)	+

TYPES OF SUBSTRATE

cellular concrete wall	+
brick, hollow block or silicate board wall	+
clay brick or perforated brick wall	+
concrete block wall	+
stone wall	+
concrete walls constructed on site	+
prefabricated concrete walls	+
cement and cement-lime plasters	+
walls with tightly adhering paint coats (the bonding has to be assessed in each case)	+
OSB and cement fibre boards	+
sandwich type boards, covered with coated sheet metal	+
bituminous coatings and coatings made of bituminous roll materials	+

TYPES OF BUILDINGS

residential housing	+
public buildings, schools, office buildings, hospitals, sports halls	+
retail and service buildings	+
industrial facilities	+
industrial warehouses	+
public transport buildings	+
farm and livestock buildings	+
underground car parks	+
passive buildings	+
low-energy buildings	+

Technical data

Temperature resistance	-60 °C to +110 °C
Application temperature and ambient temperature	from -5 °C to +30 °C
The temperature of the can	from +10 °C to +30 °C
Surface drying time	7 minutes
Full cure time*	24 hours
Further work (dowel fixing, reinforced layer)	2 hours

*) the values given in the table are recommended for application conditions at a temperature of about 23 °C and humidity of 50 %.

Technical requirements

ATLAS GRAWIS P is a component of a set of products for thermal insulation with the following systems:

Name of the system	National Technical Assessment
ATLAS GRIP	ICiMB-KOT-2022/0180, 2nd edition
ATLAS ETICS	ITB-KOT-2020/1616, 4th edition

Installation of boards

Preparation of the substrate for the boards:

The substrate should be:

stable - sufficiently strong, resistant to deformation and well cured,

even - major irregularities must be filled up with: - ATLAS ZW 330 mortar,

- ATLAS RENDERING MORTAR,

cleaned - from layers that may impair adhesion of the adhesive, in particular dust, dirt, lime, oil, grease, wax, paint residues (the adhesive does not adhere to silicone, grease, polyethylene, anti-adhesive agents or other agents that reduce adhesion).

Detailed instructions for preparing the substrate, depending on its type

Type of substrate	Procedure
Hollow renderings	must be removed
Loose paint coats and other impurities impairing the bonding of the foam adhesive with the substrate	must be mechanically removed, e.g. by hydrodynamic cleaning
Façades with microbiological growth on the surface (fungi, algae, lichens)	clean the surface mechanically, then apply ATLAS MYKOS PLUS.
Buildings constructed of prefabricated concrete slabs	Apart from the state of the substrate, check also the state of the joints between the slabs. Putty from the joints that may react chemically with the thermal insulation should be removed. In buildings erected with the use of external prefabricated laminated boards, the technical assessment of the original condition of the texture layer fixing should be performed. If necessary, before thermal insulation works, strengthen this connection by additional anchoring. Appropriate assessment and technical design should be prepared by a qualified designer.

Preparation of the adhesive

Prior to gluing the thermal insulation boards, attach the fixing profiles.

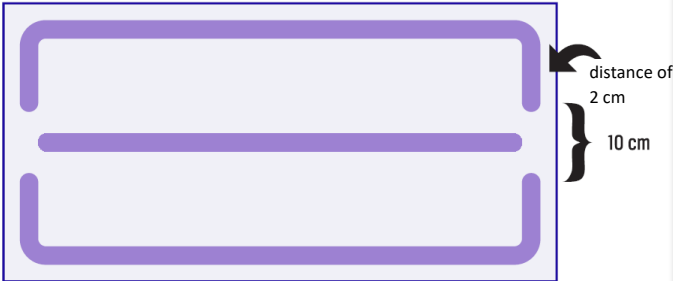
Wear gloves during the work. Shake the container vigorously for approx. 30 seconds. The temperature of the can should be between +10 °C and +30 °C. Remove the valve protection and mount the applicator gun (the temperature of the applicator gun must not be lower than the temperature of the can).

Applying the adhesive to the board – ETICS system

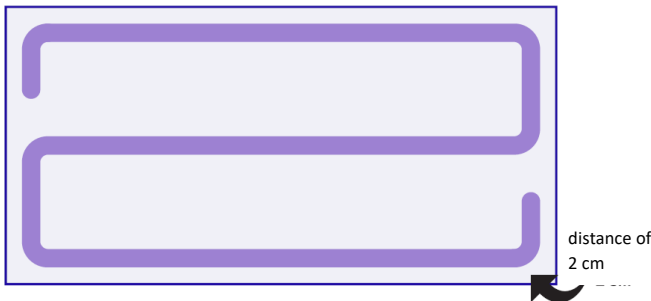
Maintain a distance of approx. 1 cm between the board and the applicator gun to allow for correct application of the adhesive. When applying the foam adhesive, hold the can upside down. In case of longer breaks between works, shake the container again before applying the adhesive.

The following adhesive application methods can be used to glue expanded polystyrene boards in thermal insulation systems.

Method 1. Apply a foam adhesive bead along the board perimeter, maintaining a distance of 2 cm from the board edge, and apply one bead of the adhesive in the middle of the board, parallel to the longer side of the board. Keep a 10 cm gap on the perimeter to allow air to escape from under the board (as shown in the drawing below).



Method 2. Apply a foam adhesive bead along the thermal insulation board perimeter, maintaining a distance of 2 cm from the board edge, and apply one bead of the adhesive in the shape of the letter S along the middle of the board.

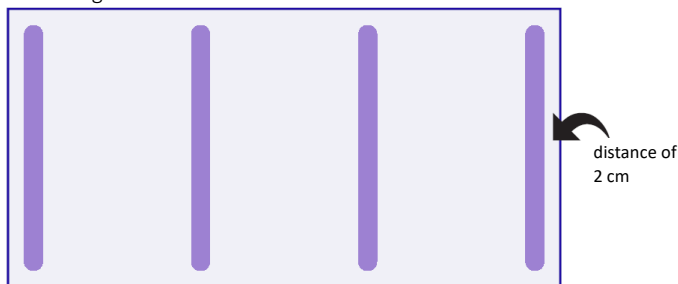


Gluing EPS thermal insulation boards - ETICS system

After applying the adhesive, place the board on the wall, positioning it relative to the adjacent boards. Then, using a 2 m long straightedge, tap the board in place to set it in the façade plane. After approx. 5-10 minutes, check the plane of the attached boards and make any necessary corrections using a straightedge.

Gluing thermal insulation boards to damp-proof and waterproof insulation – plinth zone and foundations

Apply foam adhesive to the board in 4 vertical beads parallel to the shorter side of the board, maintaining a distance of 2 cm from the board edge.



Cleaning

Remove fresh foam adhesive stains with a universal cleaner for polyurethane foams. Hardened foam adhesive can only be removed mechanically.

Consumption

Yield per a cartridge is: - up to 10 m² - façade thermal insulation* - up to 15 m² – foundation thermal insulation* * measured for a bead diameter of 2-3 cm.

The final yield depends on the temperature, humidity and application method.

Packaging

850 ml can.

Safety information

Safety information is provided on the product packaging and in the Safety Data Sheet available at www.atlas.com.pl.

Storage and transport

Information on storage and transport is provided on the product packaging and in the Material Safety Data Sheet available at www.atlas.com.pl.

Store and transport only in a vertical position.

The shelf life of the product (use-by date) is 15 months from the date of manufacture on the packaging.

Important additional information

The adhesive does not adhere to silicone, grease, polyethylene, anti-adhesive agents or other agents that reduce adhesion.

Do not clean the foam adhesive applicator gun with water, do not use sharp objects to remove foam adhesive residue from the can or applicator gun.

Wear appropriate protective clothing when applying the product.

Do not fix heated polystyrene. Protect heated polystyrene against heating up during installation and initial adhesive setting. Heating graphite expanded polystyrene during any of these phases can result in the foam adhesive loosening.

Use scaffolding covers during work. Do not carry out installation during snowfall, rain or in strong wind. Pay particular attention to protecting the corners of the building when working in adverse weather conditions.

When the expanded polystyrene boards have to be fixed to weak substrates of hard to determine bearing capacity (e.g. unstable, dusty, hard to clean), it is advisable to test the bonding. The test consists in fixing EPS 100 class polystyrene cubes with dimensions of 10x10x10 cm at characteristic (significant, representative) points on the façade and checking the bond after 24 hours. The cubes should be glued over the entire surface, and the adhesive thickness should be approx. 0.5 cm.

The substrate strength can be assumed as sufficient, when the expanded polystyrene breaks when ripped off by hand. If the cubes come off with the adhesive and a substrate layer, then the substrate bearing capacity is insufficient. In such case further procedure, e.g. the removal of the weak layer, should be described in the technical insulation project.

The information in the Product Data Sheet constitutes basic guidelines concerning the use of the product and does not release from the obligation to conduct work according to the best construction practices and health and safety at work regulations. On the date of issue of this Product Data Sheet, all previous Product Data Sheets become invalid. The accompanying documents for the product are available at www.atlas.com.pl.

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