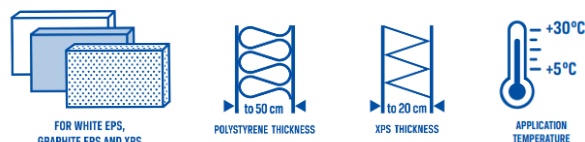


ATLAS HOTER S

adhesive mortar for EPS and XPS

- increased grip
- rapid increase in strength
- good vapour-permeability
- for insulation with ceramic tiles up to 0.36 m²



Properties

ATLAS HOTER S is produced as a dry mixture of the highest quality cement binder, aggregates and modifying agents.

High resistance to microscratch formation - thanks to a specially selected bulk stack of fine fillers and additional structural reinforcement using microfibres,

High durability during use - through the addition of redispersible polymers, microfibres and special additives and modifiers, an increase in durability, weather resistance and modifiers, an increase in the durability of the adhesive and resistance to weathering was achieved.

It has high adhesion - due to its increased polymer dispersion content, it exhibits high adhesion to mineral surfaces and to polystyrene and XPS boards. This parameter is also favourably influenced by the varied, tight bulk stack of the aggregate mixture.

It is vapour-permeable.

It has very good application parameters.

Use

In ETICS systems - for bonding thermal insulation boards made from EPS (white and graphite) and XPS boards.

Allows the fixing of polystyrene boards up to 50 cm thick.

Allows XPS boards up to 20 cm thick to be fixed.

It is recommended for insulation work in passive and energy-saving construction and energy-saving construction - helps to achieve the building envelope tightness required in passive construction.

It is a component of thermal insulation systems - it can be used to insulate newly constructed buildings and those undergoing thermal modernisation.

FUNCTION IN THE INSULATION SYSTEM	
fixing thermal insulation in thermal insulation systems	+
Reinforced layer in thermal insulation systems under all ATLAS thin layer plasters	use ATLAS HOTER U

TYPES OF THERMAL INSULATION BOARDS	
EPS - white polystyrene boards	+
EPS - polystyrene graphite boards	+
XPS boards - made from extruded polystyrene	+
mineral wool boards with a structured fibre structure (lamella)	use ATLAS ROKER System
mineral wool boards with unstructured fibre structure (façade)	use ATLAS ROKER System

TYPES OF FACILITIES	
housing construction	+
public, educational, office, healthcare, sports facilities	+
commercial and service construction	+
industrial construction	+
industrial warehouses	+
traffic construction	+
farm and livestock buildings	+
underground garages	use ATLAS ROKER G System
tall buildings > 25 m*	use ATLAS ROKER System
passive construction	+
energy-efficient construction	+

* buildings up to 11 storeys put into service before 1.4.1995 may be insulated with EPS.

SUBSTRATE TYPE	
cellular concrete walls	+
brick or silicate block walls	+
brick or hollow brick walls	+
concrete block walls	+
stone walls	+
site-made concrete walls	+
precast concrete walls	+
cement and cement-lime plasters	+
walls covered with highly adherent coatings of paint (each time requires an adhesion assessment)	use ATLAS GRAWIS U
ceilings on the side of ceilings, under heated rooms	Use ATLAS ROKER G System

TYPE OF INSULATION SYSTEM	
traditional system (finished with thin-coat plaster)	+
renovation system (insulation of existing thermal insulation with polystyrene foam)	Use ATLAS RENO- TER System
ceramic system (finished with ceramic tiles)	+

Technical data

Bulk density (dry mix)	approx. 1.4 kg/dm ³
Mixing ratio water / dry mix	0.20÷0.22 l / 1 kg 5.00÷5.50 l / 25 kg
Adhesion to concrete*	min. 0.25 MPa
Adhesion to polystyrene foam*	min. 0.08 MPa
Temperature of mortar preparation of the substrate and surroundings	from +5 °C to +30 °C
Maturation time	approx. 5 minutes
Pot life*	approx. 3 hours
Open time*	min. 25 minutes

*) The values given in the table are recommended for application conditions of approx. 20 °C and 55 % humidity.

Technical requirements

ATLAS HOTER S is a component of complex thermal insulation systems with plastering:

Name of the system	European Technical Assessment Number
ATLAS	ETA 06/0081
ATLAS XPS	ETA 07/0316

ATLAS HOTER S is a component of product sets for making thermal insulation systems:

Name of the system	Number of Technical Ap- proval/National Technical Assess- ment
ATLAS ETICS	ITB-KOT-2020/1616 Issue 3
ATLAS ETICS PLUS	ITB-KOT-2018/0584 Issue 1
ATLAS RENOTER	ITB-KOT-2021/2020 Issue 1
ATLAS CERAMIK	ITB-KOT-2018/0385 Issue 4
ATLAS ROKER EPS	ITB-KOT-2020/1188 Issue 1

Adhering the boards

Preparation of the substrate for the panels:

The substrate should be:

unfrozen and dry,

stable - sufficiently load-bearing, resistant to deformation and seasoned,

even - larger irregularities should be filled with mortar:

- ATLAS ZW 330,

- ATLAS PLASTERING MORTAR,

cleaned - from layers that could weaken the adhesion of the mortar, especially from dust, dirt, lime, oil, grease, wax, paint residues,

primed - priming with emulsion:

- ATLAS UNI-GRUNT or UNI GRUNT COLOUR,

- ATLAS UNI-GRUNT ULTRA ,

- ATLAS GRUNT NKP (ready to use - without dilution).

Priming should be carried out on substrates that are too absorbent or do not absorb uniformly (e.g. in the case of previous local repairs); weak cement and cement-lime plaster as well as masonry made of cellular concrete, silicate blocks or cinder blocks also require priming.

Before the panels are adhered, the plinth trim, which is the lower finish of the insulation, must be fixed and levelled.

Specific indications for substrate preparation, depending on the type of substrate

Substrate type	Procedure
"Dull" plasters	absolutely remove
Paint coatings with low adhesion and other impurities that weaken the adhesion of the mortar to the substrate	remove mechanically, e.g. by hydrodynamic washing
Facades with microbial infestation on the surface (fungi, algae, lichen)	Clean the surface mechanically, then apply ATLAS MYKOS PLUS.
Buildings built in large-panel technology	In addition to assessing the condition of the substrate, the condition of the inter-plate joints should be checked. Putty from joints that may react chemically with the thermal insulation should be removed. In structures built with external prefabricated sandwich panels, a technical assessment of the original condition of the texture layer fixing should be carried out. If necessary, this joint should be reinforced by additional anchoring before the insulation work. The assessment and technical design in this regard should be carried out by a person with structural competence.

Preparation of the adhesive

Pour the material from the bag into a vessel with a measured amount of water (proportions given in the Technical Data) and mix with a slow-speed mixer with a mortar mixer until a uniform consistency is obtained. Set the mixed adhesive aside for 5 minutes and after collecting the unmixed residue from the sides of the vessel with a trowel, mix again. The adhesive thus prepared should be used within approx. 3 hours.

Tile bonding

The adhesive mortar should be applied to the inside of the board using the "strip and point" method. The width of the perimeter prism, laid along the edge of the board, should be at least 3 cm. The remaining surface should be evenly covered with 6÷8 cakes of min. 8 cm. In total, you should put enough mass to cover at least 40% of the whole panel surface (after pressing the panel to the base - at least 60%) to ensure that the panel is firmly fixed to the wall. The adhesive mortar is only applied to the surface of the insulation boards, never to the substrate. It is recommended that the mortar thickness under the panel after pressing should not exceed 10 mm. With even and smooth substrates, it is acceptable to spread the mortar evenly with a notched trowel over the entire surface of the board. The size of the trowel teeth should be no less than 10 x 10 mm.

Adhere the insulation boards in a staggered pattern of vertical joints. Immediately after the adhesive mortar has been applied, apply the boards to the substrate and then tap them into position using a patch. Fastening with mechanical fasteners can be carried out at the earliest 24 hours after the panels have been fixed. For additional fixing, use plastic or steel shank fasteners in accordance with the thermal insulation design, min. 4 pcs/m².

Consumption

The material consumption depends on the parameters of the substrate (e.g. degree of evenness) and the tile bonding technology adopted.

Board bonding: 4.0 to 5.0 kg/m².

Packaging

25 kg paper bags.

Safety information

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

The shelf life of the product (best before use) is 12 months from the date of manufacture on the packaging.

Important additional information

Do not adhere heated graphite polystyrene. Do not allow the graphite polystyrene to become hot during installation and during initial setting of the adhesive. If the graphite polystyrene foam is heated at any of these stages, it may result in the polystyrene foam becoming detached from the adhesive.

It is necessary to use covers on scaffolding during the works. Work must not be carried out during snow or rainfall or in strong winds.

If it is necessary to adhere Styrofoam panels on weak substrates with a bearing capacity that is difficult to determine (e.g. unstable, dusty, difficult to clean), it is recommended to carry out an adhesion test. It consists in adhering polystyrene cubes of 10x10 cm in characteristic (important, representative) places on the façade and checking the joint:

- after 3 days under normal conditions,
- after 5 days when the temperature is below 10 °C and the humidity is above 80 %.

The strength of the substrate can be considered sufficient if the polystyrene foam is torn off during detachment by hand. If the cube is torn off together with the mortar and substrate layer then the substrate is not sufficiently load-bearing. Further treatment in such a case, e.g. determining how to remove the weak layer, should be described in the technical design of the insulation.

Clean the tools with clean water, directly after use. Difficult to remove residues of already set mortar are washed off with ATLAS CEMENT AWAY.

The information contained in this Technical Data Sheet is a basic guideline for the use of the product and does not relieve the user of the obligation to carry out the work in accordance with the rules of the art of construction and safety regulations. With the issue of this Technical Data Sheet, all previous ones are no longer valid. The documents accompanying the product are available at www.atlas.com.pl.

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