

ATLAS ROKER W

adhesive mortar for mineral wool boards fixing

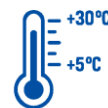
- vapour-permeable
- high adhesion to difficult substrates
- recommended for façade systems and garage systems with high acoustic insulation



FOR
MINERAL WOOL



MINERAL
WOOL THICKNESS
to 30 cm



APPLICATION
TEMPERATURE
+30°C
+5°C

Properties

ATLAS ROKER W is produced as a dry mixture of the highest quality cementitious binder, aggregates, polymer dispersions and modifying agents.

Very high adhesion - due to its increased polymer dispersion content, the adhesive exhibits high adhesion to mineral and ceramic substrates and to mineral wool boards. This parameter is also favourably influenced by the varied, tight bulk pile of the aggregate mixture. The mortar adheres strongly even to difficult substrates, e.g. paint-coated surfaces with good adhesion to the substrate.

High elasticity - the increased dispersion content increases the elasticity of the mortar, which perfectly compensates for the stresses resulting from thermal and service interactions on the layers of the system.

Increased resistance to the formation of cracks and fissures - thanks to the structural fibre reinforcement, the mortar has increased resistance to:

- formation of micro-scratches in the initial setting stage,
- the formation of cracks during the life of the system.

Highly vapour-permeable - the mortar layer does not restrict the flow of water vapour through the insulated envelope, which is particularly important when using mineral wool.

Use

In external wall and ceiling insulation systems - for bonding mineral wool insulation boards up to 30 cm thick.

It is recommended for insulation work in passive and energy-saving construction and energy-efficient buildings.

FUNCTION IN THE INSULATION SYSTEM

fixing of thermal insulation	+
implementation of the reinforced layer	Use ATLAS ROKER U

TYPE OF INSULATION SYSTEM

traditional system (finished with thin-coat plaster)	+
garage system (insulation of ceilings on the outside)	+

TYPES OF THERMAL INSULATION BOARDS

mineral wool boards with a structured fibre structure (lamella)	+
mineral wool boards with unstructured fibre structure (façade)	+

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	+
tall buildings >25 m	+
passive construction	+
energy-efficient construction	+

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)	+
ceilings on the side of the ceilings, under heated rooms	+

Technical data

Bulk density (dry mix)	approx. 1.56 kg/dm ³
Mixing ratio water / dry mix	0.22÷0.24 l / 1 kg 5.50÷6.00 l / 25 kg
Application temperature (substrate and ambient)	from +5 °C to +30 °C
Maturation time*	approx. 5 minutes
Por life*	approx. 2 hours
Open time*	min. 30 minutes
Adhesion to concrete in accordance with EN 15824:2009	> 0,25 MPa
Adhesion to wool acc. to EN 15824:2009	> 0,08 MPa
Compressive strength according to EN 1015-11:2001+A1:2007	CS category IV (> 20 N/mm ²) ²
Bending strength according to EN 1015-11:2001+A1:2007	> 5,5 kN/mm ²
Reaction to fire in accordance with EN 13501-1	class A2-s2,d0 in the ATLAS ROKER system with mineral and silicate plasters, class B-s1,d0 in the system with acrylic and silicone plasters

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

Technical requirements

ATLAS ROKER W is a component of product kits for thermal insulation systems:

Name of the system	National Technical Assessment
ATLAS ROKER G	ITB-KOT-2018/0583 Issue 1
ATLAS ROKER	ITB-KOT-2021/1919 Issue 2
ATLAS RENOTER W	ITB-KOT-2020/1187 Issue 1

Bonding of thermal insulation

Preparation of the substrate for the boards:

The substrate should be:

- **unfrozen and dry**,
- **stable** - sufficiently load-bearing, resistant to deformation, free of substances that reduce adhesion and seasoned,
- **even** - larger irregularities should be filled with ATLAS ZW 330 or 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 required in case of excessively absorptive or unevenly absorptive substrates (e.g. in case of previous local repairs); weak cement and cement-lime plaster, as well as walls made of cellular concrete, silicate blocks or cinder blocks also require priming. Do the priming with one of the emulsions:
 - ATLAS GRUNT NKP (ready to use - without dilution),
 - ATLAS UNI-GRUNT or ATLAS UNI-GRUNT COLOUR,
 - ATLAS UNI-GRUNT ULTRA.

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

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

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 (mould decay 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 buildings built with external prefabricated sandwich boards, a technical assessment of the original condition of the texture layer fixing should be carried out. If necessary, reinforce this joint by additional anchoring prior to insulation work. The assessment and technical design in this area should be carried out by a person with structural competence.

Board fixing

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 mix again. The adhesive thus prepared should be used within approximately 2 hours.

Bonding mineral wool boards

The surface of the boards should be thinly mudded with mortar, then the 'proper layer' should be applied and dragged with a 10 x 10 mm toothed trowel.

Stick the insulation boards in a staggered pattern of vertical joints. Immediately after the adhesive mortar has been applied, the board should be pressed into position. Fastening with mechanical fasteners can be carried out at the earliest 24 hours after the boards have been fixed. Use galvanised metal dowels in accordance with the thermal insulation design, min. 4 pcs/m².

Consumption

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

Bonding of mineral wool boards: approx. 4.5-5.5 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 production date on the packaging.

Important additional information

For insulation systems using ATLAS products, mineral wool meeting the requirements of EN 13162 should be used. A detailed description of the technology for carrying out the installation work is contained in ITB Technical Instruction No. 447/2009 and in SSO Instruction: "Technical conditions for the execution, assessment and acceptance of façade works using ETICS" (http://www.systemyocieplen.pl/pliki/SSO_wytyczne_web.pdf).

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.

When attaching the boards to weak substrates with a bearing capacity that is difficult to determine (unstable, dusty, difficult to clean), it is recommended to carry out an adhesion test. It consists in gluing in various places on the façade, 8÷10 wool cubes of 10x10 cm in size, and checking the joint after 3 days. and checking the joint after 3 days. The strength of the substrate can be considered sufficient if the wool is torn into its structure when peeled off by hand. If the cube is torn off with If the block is torn off together with the mortar and the substrate layer, this means that the substrate is not strong enough. The further procedure in such a case, e.g. determining how to remove the weak layer, should be described in the in the insulation design.

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 the Technical Data Sheet is a basic guide to the use of the product and does not exempt from 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. Documents accompanying the product are available at www.atlas.com.pl.

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Update date: 2023-01-23