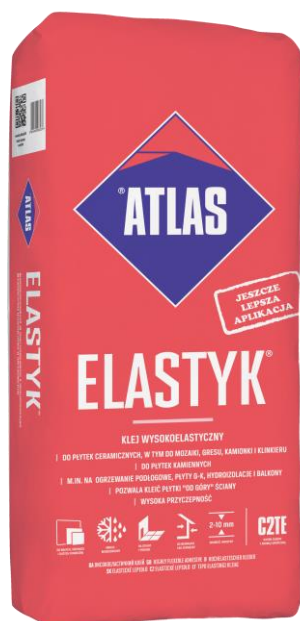




C2TE
PRODUCT CONFORMS
TO THE EUROPEAN STANDARD

ATLAS ELASTYK

highly flexible adhesive 2-10 mm

- for ceramic tiles, including mosaic, glazed, stoneware and clinker tiles
- for stone tiles
- for underfloor heating, plasterboard, waterproofing and balconies etc.
- fixing tiles from the top of the wall
- high adhesion



OPTIMISED FORMULATION

ATLAS ELASTYK adhesive is a traditional cement adhesive with increased adhesion, for use in the installation of various types of ceramic, stone and glass cladding. The ATLAS ELASTYK adhesive formulation provides:

- **wide area of application** - thanks to the use of binding additives, ATLAS ELASTYK adhesive has high adhesion to various types of tiles (including large format) and substrates,
- **easy and quick application** - by extending the open time and reducing run-off, tiling work can be carried out more efficiently,
- **durability of application** - due to its elastic properties, it shows increased resistance to thermal and mechanical loads (e.g. with underfloor heating, wall heating, plasterboard, flexible waterproofing of the WODER type).

Properties

ATLAS ELASTYK is produced as a dry mixture of the highest quality cement binder, aggregates and specially selected modifying agents.

Enhanced adhesion - minimum adhesion to the substrate is 1.0 N/mm².

Even easier application - the adhesive is easier to mix and apply, and does not run off the trowel.

The adhesive layer thickness range (2-10 mm) allows:

- thin-bedding of cladding on an even substrate,
- thin-bedding of coverings on uneven substrates, preceded by levelling mudding.

Extended open time - allows the adhesive to be applied to the tile for up to 30 minutes after it is applied to the substrate - can be applied to a larger area at a time and therefore minimises working time.

Reduced run-off - allows tiles to be fixed 'from above' - the correct consistency and layer thickness eliminate adhesive run-off. This makes it possible to start work from the top of the wall and avoid fixing cut tiles on its exposed surface.

Purpose

TYPES OF TILES TO BE FIXED	
Glazed tiles	+
terracotta	+
porcelain tiles	+
laminated tiles	use ATLAS PLUS
natural stone cladding (granite, marble, travertine, syenite, slate, etc.).	perform an application test*
clinker	+
stoneware	+
ceramic mosaic	+
glass mosaic	perform an application test*
glass , coloured, printed tiles, etc.	perform an application test* and check the tile manufacturer's recommendations
concrete / cement tiles	+
composite panels	use ATLAS PLUS
insulation and soundproofing panels	use ATLAS PLUS

*for a description of the application test, see paragraph Important additional information

FORMATS OF THE ELEMENTS TO BE FIXED	
small, medium and large format tiles ($\leq 0.36 \text{ m}^2$) and length of long side $\leq 100 \text{ cm}$	+
large tile format ($> 0.36 \text{ m}^2$)	use ATLAS PLUS
slim discs	use ATLAS PLUS

TYPES OF FACILITIES	
housing construction	+
public, educational, office and healthcare buildings	+
commercial and service construction	+
religious buildings	+
industrial buildings and multi-storey garages	use ATLAS PLUS
industrial warehouses	use ATLAS PLUS
traffic construction	use ATLAS PLUS
SPA facilities	use ATLAS PLUS

PLACE OF INSTALLATION	
low-traffic areas	+
medium traffic areas	+
high traffic areas	use ATLAS PLUS
kitchen, bathroom, laundry room, garage (in individual housing)	+
terraces	use ATLAS PLUS
balconies, loggias	+
external panel staircase	+
external beam stairs, e.g. cantilever stairs	use ATLAS PLUS
traffic routes (except external stairs)	+
facades (including on thermal insulation systems)	use ATLAS PLUS
cladding of building plinths	+
process tanks, swimming pools, fountains, jacuzzis, balneotechnology (without aggressive chemicals)	use ATLAS PLUS
drinking water tanks	use ATLAS PLUS
saunas	use ATLAS PLUS
showers, washing facilities, rooms washed with large quantities of water	use ATLAS PLUS

substrate type - standard	
cement floors and bases	+
anhydrite primers	+
cement and cement-lime plasters	+
gypsum plasters	+
cellular concrete walls	+
brick or silicate block walls	+
brick or hollow brick walls	+
gypsum block masonry	+

substrate type - difficult	
concrete	+
terrazzo	use ATLAS PLUS
mineral, dispersion and reactive sealing coatings	+
dry gypsum board underlays	use ATLAS PLUS
screeds (cement or anhydrite) with embedded heating, either water-based or electric	+
screeds with embedded heating mats	+
plaster with concealed heating	+
gypsum boards	+
gypsum fibre boards	+
cement fibre boards	+
existing ceramic or stone cladding (tile on tile)	use ATLAS PLUS
resin varnishes for concrete bound to the substrate	use ATLAS PLUS
dispersion oil-bonded coatings	use ATLAS PLUS
plank floors (thickness >25mm)	use ATLAS PLUS
wood-based flooring panels, minimum 22 mm thick, fixed with ATLAS M-System fasteners	use ATLAS PLUS
OSB/3, OSB/4 and particle board on the floor (thickness > 25mm)	use ATLAS PLUS
OSB/3, OSB/4 and particle board on the wall (thickness > 18mm)	use ATLAS PLUS
metal and steel surfaces	use ATLAS PLUS
plastic surfaces	use ATLAS PLUS

ATLAS ELASTYK adhesive is also used for filling the above-mentioned standard and difficult substrates.

Technical data

Bulk density	approx. 1.4 g/dm ³
Mixing ratio (water/dry mix)	0.29 ÷ 0.30 l / 1 kg 7.25 ÷ 7.50 l / 25 kg
Min/max. adhesive thickness	2 mm ÷ 10 mm
Temperature of the adhesive preparation and of the substrate and surroundings during the work	from +5 °C to +25 °C
Maturation time	5 minutes
Pot life	approx. 4 h
Open time	min. 30 minutes
Correctability	10 minutes
Walking on the floor / grouting	after approx. 24 hours
Full operational loads - pedestrian traffic*	after 3 days
Full operational loads - wheeled traffic*	after 14 days

*) The times shown in the table are recommended for application conditions of approx. 23 °C and 55 % humidity.

Technical requirements

The product complies with the requirements of EN 12004+A1:2012 for adhesive class C2TE - adhesive for tiles, cementitious adhesive with increased parameters, extended open time and reduced run-off, for indoor and outdoor use on walls and floors.

ATLAS ELASTYK (2020) Declaration of performance 213/1/CPR EN 12004:2007+A1:2012	
Intended use: all indoor and outdoor tiling	
Reaction to fire	A1/A1 _{fl}
Joint strength expressed as - initial adhesion	≥ 1.0 N/mm ²
Joint durability under conditioning / thermal ageing conditions expressed as: - adhesion after thermal ageing	≥ 1.0 N/mm ²
Joint durability under water/moisture conditions expressed as: - adhesion after immersion in water	≥ 1.0 N/mm ²
Joint durability under freeze-thaw cycling conditions expressed as: - adhesion after freeze-thaw cycles	≥ 1.0 N/mm ²

Substrate preparation

The substrate should be:

stable - sufficiently load-bearing, resistant to deformation, free of substances that reduce adhesion and milled,

even - the maximum thickness of the adhesive is 10 mm, for levelling the substrate in case of larger irregularities, for example:

- ATLAS ZW 330 levelling mortar,
- ATLAS SMS, MMS, SAM or POSTAR screeds,

cleaned - from layers that could weaken the adhesion of the adhesive, especially from dust, dirt, lime, oil, grease, wax, oil and emulsion paint residues ; substrates with biological infestation should be cleaned and protected with a preparation:

- ATLAS MYKOS PLUS,

primed when the substrate has excessive or non-uniform absorbency,

- ATLAS GRUNT NKP (ready to use - without dilution),
- ATLAS UNI-GRUNT,
- ATLAS UNI-GRUNT ULTRA,

covered with a bonding primer when the substrate has low absorbency or is covered with adhesion-restricting layers.

- ATLAS ULTRAGRUNT,
- ATLAS GRUNTO-PLAST.

insulated - when laying tiles on surfaces that are exposed to water:

- ATLAS FAST DRYING LIQUID FOIL WODER E,
- ATLAS LIQUID FOIL WODER W,
- ATLAS WODER SX,
- ATLAS WODER DUO,

Detailed indications of the substrate preparation, depending on the type of substrate, are shown in the table at the end of the Technical Data Sheet.

Cladding application

Preparation of the adhesive

Pour the contents of 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 4 hours.

Application of adhesive

It is advisable to first rub a thin layer of adhesive into the substrate and then apply a thicker layer of adhesive immediately profiling with a notched trowel. It is recommended that the toothed trowel is guided in one direction as much as possible. On walls, it is recommended to profile the adhesive in a vertical direction.

In the case of tiles laid on floors and cladding carried out outdoors, it is recommended that the bonding surface is complete (if necessary, use a combined method of applying adhesive mortar to the substrate and to the undersurface of the tile).

Bonding the cladding

After spreading on the substrate, the adhesive retains its properties for approximately 30 minutes (at a temperature of approximately 23°C and 55 % humidity). During this time, apply the tile to it and press down carefully (the contact area between the tile and the adhesive should be even and as large as possible - min. 2/3 of the tile surface). Excess adhesive appearing in the joints when pressing the tiles should be removed continuously.

The width of the joints must be maintained depending on the size of the tiles and the operating conditions.

Correcting the position of the plate

The position of the tile can be corrected by gently moving it in the plane of bonding. This can be done for about 10 minutes after pressing (at a temperature of approx. 23 °C and 55 % humidity).

Grouting and use of the cladding

The use of ATLAS grouts, e.g. ATLAS CERAMIC GROUT, is recommended for grouting the cladding. It is possible to step on the cladding and start grouting approximately 24 hours after bonding the tiles. The mortar reaches its service strength after 3 days (information given in the Technical Data). The expansion joints between tiles, joints along wall corners, joints at sanitary facilities should be filled with ATLAS SANITARY SILICONE SILTON S or ATLAS ELASTIC SANITARY SILICONE.

Consumption

The average adhesive consumption figures given in the table refer to application on an even substrate. Unevenness of the substrate increases the unit consumption of adhesive mortar. If the so-called combination method is used, the adhesive consumption will increase.

Tile size [cm]	Place of application	Recommended trowel tooth size [mm]	Consumption rate [kg/m ²]
2 x 2	wall	4	1.4
	flooring	4	1.4
10 x 10	wall	4	1.4
	flooring	6	2.2
15 x 60	wall	6	2.2
	flooring	8	2.8
20 x 25	wall	6	2.2
	flooring	8	2.8
25 x 40	wall	6	2.2
	flooring	8	2.8
30 x 30	wall	6	2.2
	flooring	8	2.8
30 x 60	wall	8	2.8
	flooring	10	3.4
40 x 40	wall	8	2.8
	flooring	10	3.4
50 x 50	wall	8	2.8
	flooring	10	3.4
60 x 60	wall	10	3.4
	flooring	12	4.3

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 soak the tiles before fixing. When determining the thickness of the adhesive under the cladding to be fixed, geometric deviations in the shape of the tiles, e.g. curling of the plane, must be taken into account.

Before fixing natural stone tiles or glass elements, it is necessary to carry out an application test. For this purpose, one tile should be fixed to the substrate. The bonding area should be 60 % (40 % of the tile surface should not be in contact with the adhesive). After 2-3 days, the appearance of the tile should be assessed. The test result can be considered positive if there are no shade differences on the tile surface between areas in contact and not in contact with the adhesive.

The open time - from the application of the adhesive to the substrate to the application of the tiles - is limited. To check whether it is still possible to fix the tiles, a simple test is recommended. This consists of pressing the fingers of your hand against the applied adhesive. If the adhesive remains on the fingers, then the tiles can be fixed. When the adhesive does not stick to the fingers, remove it from the substrate and apply a new layer.

Clean the tools with clean water, directly after using the adhesive. Difficult to remove remains of the bonded adhesive should be washed off with ATLAS SZOP.

The information contained in the Technical Sheets 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. Documents accompanying the product are available at www.atlas.com.pl.

The contents of the Technical Data Sheet and the designations and trade names used therein are the property of Atlas Ltd. Their unauthorised use will be sanctioned.

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The table below shows the specific requirements for substrate preparation. Before starting work, please also refer to the Technical Sheets of the products listed in the table. The times shown in the table are recommended for application and seasoning conditions of approx. 20 °C and 50 % humidity.

Newly manufactured cement screeds ATLAS POSTAR 10	Moisture content of the screed 4.0 % CM - after approx. 1.5 days for a thickness of 1.0-3.0 cm - after approx. 3 days for a thickness of 3.1-5.0 cm - after approx. 9 days for a thickness of 5.1-10.0 cm
Newly manufactured cement screeds ATLAS POSTAR 20	Moisture content of the screed 4.0 % CM - after approx. 1 day for an undercoat thickness of 1.0-3.0 cm - after approx. 2 days for a thickness of 3.1-5.0 cm - after approx. 5 days for a thickness of 5.1-8.0 cm
Newly manufactured cement screeds ATLAS POSTAR 60	Moisture content of the screed 4.0 % CM - after approx. 6 hours for a thickness of 1.0-3.0 cm - after approx. 12 hours for a thickness of 3.1-5.0 cm - after approx. 40 hours for a thickness of 5.1-8.0 cm
Newly manufactured cement screeds ATLAS POSTAR 80	Moisture content of the screed 4.0 % CM - after approx. 3 hours for a thickness of 1.0-3.0 cm - after approx. 6 hours for a thickness of 3.1-5.0 cm - after approx. 18 hours for a thickness of 5.1-8.0 cm
Newly manufactured cement screeds ATLAS SMS 15	Moisture content of the screed 4.0 % CM - after approx. 8 hours for a thickness of 1-15 mm
Newly manufactured cement screeds ATLAS SMS 30	Moisture content of the screed 4.0 % CM - after approx. 18 hours for a thickness of 3-5 mm - after approx. 48 hours for a thickness of 6-10 mm - after approx. 72 hours for a thickness of 11-20 mm - after approx. 96 hours for a thickness of 21-30 mm
Other cement screeds	Compressive strength of at least 12 MPa. Seasoning minimum 28 days Optimum moisture content < 4% by weight Prime with one of the emulsions: - ATLAS GRUNT NKP (ready to use - without dilution) - ATLAS UNI-GRUNT - ATLAS UNI-GRUNT ULTRA
Newly manufactured hybrid screeds ATLAS MMS 60	Required moisture content of the substrate 1 % CM - after approx. 14 days for a substrate thickness of 2.0 - 4.0 cm - after approx. 21 days for a substrate thickness of over 4.0 cm
Newly manufactured anhydrite screeds ATLAS SAM 100	Moisture content of the screed 1.0 % CM - approx. 4 days for a thickness of 0.5-3.0 cm Prime with one of the emulsions: - ATLAS GRUNT NKP (ready to use - without dilution) - ATLAS UNI-GRUNT - ATLAS UNI-GRUNT ULTRA
Newly manufactured anhydrite screed ATLAS SAM 200	Moisture content of the screed 1.0 % CM - approx. 10 days for a thickness of 2.5-4.0 cm - approx. 21 days for a thickness of 4.1-6.0 cm If a white surface deposit has appeared while the primer is drying, it should be removed mechanically by sanding and then the entire surface dusted. Prime with one of the emulsions: - ATLAS GRUNT NKP (ready to use - without dilution) - ATLAS UNI-GRUNT - ATLAS UNI-GRUNT ULTRA
Cement and anhydrite screeds with underfloor heating (heating underlay)	Attention. When the substrate is a subfloor with sunken underfloor heating, it must absolutely be heated. Information on the heating of ATLAS screeds is given in their technical data sheets. Tiles with ATLAS ELASTYK adhesive should be applied when the underfloor heating is switched off. The underfloor heating can be started after a minimum of 21 days after the tiles have been bonded.
Bricks or hollow bricks of calcium-silicate, ceramic or cellular concrete	A two-layer render (render + filler) trowelled to a rough finish is required. Bonding directly to unrendered masonry is only possible if the geometric requirements of the substrate are met. In this case, it is necessary to complete the wall with a full joint (or to complete the jointing) and to repair any defects and unevenness using ready-made mortars. Prime with one of the emulsions: - ATLAS GRUNT NKP (ready to use - without dilution) - ATLAS UNI-GRUNT - ATLAS UNI-GRUNT ULTRA

Cement and cement-lime plasters from ATLAS ready-mixed mortars	Seasoning minimum 3 days for every 1 cm of thickness Optimum moisture content < 4% CM Prime with one of the emulsions: - ATLAS GRUNT NKP (ready to use - without dilution) - ATLAS UNI-GRUNT - ATLAS UNI-GRUNT ULTRA
Other cement and cement-lime plasters	Minimum category CS III Minimum curing time of 7 days for each 1 cm of thickness Prime with one of the emulsions: - ATLAS GRUNT NKP (ready to use - without dilution) - ATLAS UNI-GRUNT - ATLAS UNI-GRUNT ULTRA
Gypsum plasters	Recommended compressive strength > 4 MPa Prime with one of the emulsions: - ATLAS GRUNT NKP (ready to use - without dilution) - ATLAS UNI-GRUNT - ATLAS UNI-GRUNT ULTRA If the gypsum plaster is made in a wet room, then it should be carefully protected against moisture, e.g. by applying an insulating coating of ATLAS WODER E or WODER W Plasterboard should be removed
Mortar levelled substrates ATLAS ZW 330	Moisture content of the screed 1.0 % CM - 5 hours at 5 mm film thickness - 10 hours at a film thickness of 10 mm - 20 hours for a layer thickness of 20 mm - 48 hours for layer thicknesses over 20 mm
Concrete floors	Seasoning time minimum 3 months Optimum moisture content < 4% by weight Absolutely clean off any residue from concreting separators and other substances that may impair adhesion Repair deficiencies, chipping and other cavities with one of the mortars: - ATLAS ZW 330 - ATLAS FILER S Prime with ATLAS ULTRAGRUNT
Newly installed waterproofing with ATLAS WODER	- ATLAS FAST DRYING LIQUID FOIL WODER E- possibility to install the cladding after 2 hours for waterproofing and after 4 hours for waterproofing - ATLAS LIQUID FOIL WODER W - possibility to install the cladding after 24 hours - ATLAS WODER DUO - possibility to install the cladding after 12 hours - ATLAS WODER SX - possibility to install the cladding after 40 hours