



ATLAS ATUT

adhesive for tiles

- for porcelain, glazed tiles and terracotta
- allows tiles to be laid "from the top down"
- layer thickness 2-10 mm
- for indoor and outdoor use



Properties

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

Thanks to its improved formulation, the product provides:

- **wide range of adhesive layer thicknesses (2-10 mm)**, and therefore allows thin-layer adhesion of the cladding even on uneven substrates and makes it possible to level mineral substrates,
- **decreased run-off** - making it possible to install ceramics "from the top down" and avoids cutting tiles on the exposed wall surface.

Purpose

TYPES OF TILES TO BE FIXED	
glazed tiles	+
terracotta	+
porcelain tiles	+
natural stone cladding (granite, marble, travertine, syenite, slate, etc.).	perform an application test *
clinker	+
ceramic mosaic	+
concrete / cement tiles	use ATLAS ELASTIFIED ADHESIVE MORTAR

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

FORMATS OF THE ELEMENTS TO BE FIXED

small and medium-sized tile format ($\leq 0.1 \text{ m}^2$) and long side length $\leq 40 \text{ cm}$	+
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TYPES OF FACILITIES

housing construction	+
rooms with low operational loads in facilities: - public utilities, - offices, - healthcare, - retail and services, - religious sites.	+

PLACE OF INSTALLATION

low-traffic areas	+
rooms with low operational loads in all types of facilities	+
kitchen, bathroom, laundry room, garage (in individual housing)	+
external panel staircase	+
cladding of building plinths	+

substrate type - standard

concrete	+
cement floors and screeds	+
anhydrite screeds	+
cement and cement-lime plasters	+
gypsum plasters in dry areas of rooms	+
cellular concrete masonry	+
brick or silicate block masonry	+
brick or hollow brick masonry	+
gypsum block masonry	+

Technical data

Bulk density	approx. 1.6 g/cm ³
Mixing ratio (water/dry mix)	0.21 ÷ 0.24 l / 1 kg 5.25 ÷ 6.0 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 (stand-by time)*	approx. 4 hours
Open time*	min. 20 minutes
Adjustability*	10 minutes
Walking on the floor / grouting*	after approx. 24 hours
Full operational loads - pedestrian traffic*	after approx. 3 days

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

Technical requirements

The product meets the requirements of EN 12004+A1:2012 - type C1T - cementitious adhesive for tiles, normally setting, with reduced run-off, indoor and outdoor, for walls and floors.

ATLAS ATUT (2019) Declaration of performance 180/1/CPR EN 12004:2007+A1:2012	
Intended use: all internal and external tiling	
Reaction to fire	A1 WT A1 _{fl} WT
Joint strength expressed as - initial adhesion	≥ 0.5 N/mm ²
Joint durability under conditioning / thermal ageing conditions expressed as: - adhesion after thermal ageing	≥ 0.5 N/mm ²
Joint durability under water/moisture conditions expressed as: - adhesion after immersion in water	≥ 0.5 N/mm ²
Joint durability under freeze-thaw cycling conditions expressed as: - adhesion after freeze-thaw cycles	≥ 0.5 N/mm ²

Substrate preparation

The substrate should be:

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

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 may weaken the adhesion of the adhesive, especially from dust, dirt, lime, oil, grease, wax, oil and emulsion paint residues. Substrate with biological infestation should be cleaned and treated with a preparation:

- ATLAS MYKOS PLUS,

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

- 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 absorptivity or is covered with adhesion-restricting layers.

- ATLAS ULTRAGRUNT,
- ATLAS GRUNTO-PLAST.

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

Cladding installation

Preparation of the adhesive

Pour the contents of the bag into a bucket 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 approx. 4 hours (after each hour, the ready-to-use adhesive in the bucket should be stirred again).

Application of adhesive

First apply a thin layer of adhesive into the substrate and then apply a thicker layer of adhesive, profiling immediately with a notched trowel. Guide the notched trowel as much as possible in one direction. On walls, it is recommended to profile the adhesive in a vertical direction.

Attention. In the case of tiles applied on floors and cladding carried out outside, the bonding surface should be complete. To this end, use the 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 20 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 tile

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

Grouting and use of the cladding

The use of ATLAS mortars, 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). Expansion joints between tiles, joints along wall corners, joints at sanitary facilities should be filled with ATLAS ELASTIC SANITARY SILICONE or ATLAS SILTON S.

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	1,7
	floor	4	1,7
10 x 10	wall	4	1,7
	floor	6	2,2
20 x 25	wall	6	2,2
	floor	8	2,9
25 x 40	wall	6	2,2
	floor	8	2,9
30 x 30	wall	6	2,2
	floor	8	2,9

Packaging

Paper bags: 25 kg.

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

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, 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.

When fixing tiles on weak substrates, with load-bearing capacity that is difficult to determine, it is recommended to carry out an adhesion test by gluing the tile and checking the bond after 48 hours.

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 these 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 trade and in compliance with health 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.

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, 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.

Substrate type	Procedure
Newly manufactured cement screed ATLAS POSTAR 10	Moisture content of the screed 4.0% - 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 screed ATLAS POSTAR 20	Moisture content of the screed 4.0% - after approx. 1 day for a 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 screed ATLAS POSTAR 60	Moisture content of the screed 4.0% - 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 screed ATLAS POSTAR 80	Moisture content of the screed 4.0% - 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 screed ATLAS SMS 15	Moisture content of the screed 4.0% - after approx. 8 hours for a thickness of 1-15 mm
Newly manufactured cement screed ATLAS SMS 30	Moisture content of the screed 4.0% - 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 anhydrite screeds ATLAS SAM 100	Moisture content of the screed 1.0% - 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% - approx. 10 days for a thickness of 2.5-4.0 cm - approx. 21 days for a thickness of 4.1 to 6.0 cm Prime with one of the emulsions: - ATLAS GRUNT NKP (ready to use - without dilution) - ATLAS UNI-GRUNT - ATLAS UNI-GRUNT ULTRA
Newly manufactured hybrid floor screeds ATLAS MMS 60	Moisture content of the screed 1.0 % (by CM method) - after approx. 14 days for a screed thickness 2,0-4,0 cm - after approx. 21 days for a screed thickness of over 4,0 cm
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% by weight 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	<p>Minimum CS category 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 COLOUR - ATLAS UNI-GRUNT ULTRA</p>
Gypsum plasters	<p>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 making an insulating coating with ATLAS FAST DRYING LIQUID FOIL WODER E or ATLAS LIQUID FOIL WODER W. Plastering should be removed.</p>
Mortar levelled substrates ATLAS ZW 330	<p>Moisture content of the screed 1.0% - 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</p>
Concrete floors	<p>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</p>