



## ATLAS ATUT adhesive for tiles 2-10 mm

- for small and medium size ceramic tiles, incl. gres-porcelain ones
- reduced slip
- layer thickness 2-10 mm
- for indoor and outdoor use

### Properties

ATLAS ATUT is manufactured as a dry mix of high quality cement binder, aggregates and specially selected modifiers.

Owing to the improved formula the product offers:

- **wide range of layer thickness (2-10 mm)**, therefore enables thin coat installation of the cladding, also on uneven substrates, as well as mineral substrates levelling,
- **reduced slip**, therefore enables fixing the cladding "from the top", which helps to avoid cut-to-size tiles on exposed wall zones.

### Use

**Fixing ceramic cladding** – glazed tiles, terracotta, porcelain-gres tiles, ceramic mosaic.

**Fixing small and medium size claddings (< 0.1 m<sup>2</sup>).**

**Fixing tiles on horizontal and vertical surfaces, indoors and outdoors:**

- in residential buildings,
- in kitchens, bathrooms, laundries, garages,
- on surfaces exposed to low traffic.

**Fixing cladding on standard substrates** – concrete, cement screeds and mortars, anhydrite screeds, cement, cement-lime and gypsum plasters, walls made of cellular concrete, silicate brick or hollow blocks, ceramic brick or hollow blocks, gypsum blocks.

**Note.** Check the product sheet on [www.atlas.com.pl/en](http://www.atlas.com.pl/en) for more detailed info on the range of use.

### Technical data

Mass bulk density (after mixing)	approx. 1.5 kg/dm <sup>3</sup>
Mixing ratio (water/dry mix)	0.21 – 0.24 l / 1 kg 4.7 - 5.4 l / 22.5 kg
Min./max. adhesive thickness	2 mm / 10 mm
Adhesive preparation temperature, substrate and ambient temperature during work	from +5°C to +25°C
Maturing time*	approx. 5 minutes
Pot life*	approx. 4 hours
Open time*	min. 20 minutes
Adjustability time*	10 minutes
Full operation load – foot traffic*	after approx. 3 days

\*The time shown in the table is recommended for the application in the temperature 23°C and humidity 55% (approx.).

### Technical requirements

The product conforms to PN-EN 12004+A1:2012 standard for C1T class adhesive. EC Declaration of Performance No. 180/CPR.

	PN-EN 12004+A1:2012 (EN 12004:2007+A1:2012)
Cement adhesive for tiles, normal setting, of reduced slip, C1T type	for indoor and outdoor use, for walls and floors
Reaction to fire – class	A1 A1 <sub>fl</sub>
Bonding strength - initial bonding	≥ 0.5 N/mm <sup>2</sup>
Durability - bonding after: <ul style="list-style-type: none"> <li>- heat exposure</li> <li>- immersion in water</li> <li>- freeze-thaw cycles</li> </ul>	≥ 0.5 N/mm <sup>2</sup> ≥ 0.5 N/mm <sup>2</sup> ≥ 0.5 N/mm <sup>2</sup>
Open time - tensile adhesion after time not shorter than 20 minutes	≥ 0.5 N/mm <sup>2</sup>
Slip	≤ 0.5 mm
Release/content of hazardous substances	See: Safety Data Sheet

The product has been given the Radiation Hygiene Certificate.

## Application

### Substrate preparation

#### The substrate should be:

- **stable** – sufficiently sound, resistant to deformation, free from materials which would impair adhesion, stabilized.
- **even** – maximum adhesive thickness is 10 mm, in case of larger irregularities use, e.g. ATLAS ZW 330 mortar, screeds ATLAS SMS, SAM or POSTAR.
- **clean** – free from layers which can impair adhesion, especially dust, dirt, lime, oils, greases, wax, residues of oil and emulsion paints. The substrate coated with algae, fungi, etc. must be cleaned and protected with ATLAS MYKOS agent.
- **primed with:**
  - ATLAS UNI-GRUNT or ATLAS UNI-GRUNT PLUS – substrates of excessive or heterogeneous absorptiveness,
  - ATLAS GRUNTO-PLAST – if the substrate absorptivity is low, or it is coated with layers limiting the adhesion.

Detailed guidelines concerning the substrate preparation, depending on its type, are available in the product sheet on [www.atlas.com.pl/en](http://www.atlas.com.pl/en).

## Adhesive preparation

Pour the adhesive from the bag into a container with the suitable amount of water (see Technical Data for ratio) and mix, using a low speed mixer with a drill for mortars, until homogenous. The dispersed adhesive should be left to rest for 5 minutes and then remixed. So prepared adhesive should be used up within approx. 4 hours.

### Adhesive application

The adhesive should be applied onto the surface with a steel trowel and then distributed evenly and shaped (possibly in one direction) using a notched trowel. It is advisable to spread a thin adhesive coat first and then apply the coat of desired thickness and shape it with a notched trowel. It is recommended to lead a notched trowel in one direction. On walls, it's recommended to shape the adhesive in vertical direction.

### Installing the tiles

After the application, the adhesive retains its properties for approx. 30 minutes (in temperature approx. 23 °C and 55 % humidity). Within this time, the tile must be placed and pressed well (the contact surface between the adhesive and the tile should be uniform and as large as possible – min. 2/3 of tile surface). Remove the excess of the adhesive pressed into the joints immediately. In case of floor tiles or tiling outdoors it is advisable to keep the full bonding surface (use the mixed method consisting in application of the adhesive on the substrate and the back of a tile, if needed). Keep the joint width appropriate for the tile size and operation conditions (check data in the sheets of ATLAS grouts).

### Tile adjustment

The position of a tile can be adjusted with delicate moves along the bonding plane. It can be done within approximately 10 minutes since the tile is pressed (in temperature approx. 23 °C and 55 % humidity).

### Grouting and cladding use

Foot traffic and grouting with ATLAS GROUT, ATLAS ARTIS GROUT, ATLAS DECORATIVE GROUT or ATLAS EPOXY GROUT can start after approx. 24 hours since the tiles fixing. The mortar reaches the operational strength after 3 days (check the Technical Data). Expansion joints, joints along the wall corners, at sanitary equipment, etc. should be filled with sanitary silicone ATLAS SILTON S or ATLAS ARTIS.

## Consumption

Average consumption: approx. 1.5 kg of dry mix / 1 m<sup>2</sup> / 1 mm adhesive layer – for complete filling the space beneath the tile. It depends on the smoothness of the surface and the back side of the tile.

Tile size	Trowel notch size [mm]	Thickness of adhesive coat [mm]	2/3 surface contact [kg/m <sup>2</sup> ]	Full surface contact [kg/m <sup>2</sup> ]
mosaic up to 2 x 2 cm	4.0	2	from 2.0	from 3.0
small size up to 10 x 10 cm	≥ 6.0	2÷2.5	from 2.0	from 3.0
medium size up to 30 x 30 cm	≥ 8.0	3÷3.5	from 3.0	from 4.5

## Important additional information

- The tiles must not be soaked before fixing. When determining the adhesive thickness under the cladding, one should consider the geometric deviation of tiles shape, e.g. plane warpage.
- When fixing the tiles on weak substrates which bearing capacity is difficult to establish (e.g. dusty, difficult to clean), it is recommended to perform an adhesion test by fixing a tile and checking the bond after 48 hours.
- Open time – from the moment of application of the adhesive to the moment of placing the tiles upon it – is limited. In order to check if it is still possible to fix tiles, performing a test is recommended. It consists in pressing your fingers against the adhesive. If the adhesive remains on the fingers, you may fix the tiles. If the fingers are clean, the old layer of the adhesive has to be removed and a new one applied.
- The tools must be cleaned with clean water directly after use. Difficult to remove residues of the set adhesive can be removed with the ATLAS SZOP agent.
- Contains cement. May cause respiratory irritation. Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. Keep out of reach of children. Avoid breathing dust. Wear protective gloves/protective clothing/eye protection/face protection. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or a rash occurs: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. Follow the instructions of the Safety Data Sheet.
- The adhesive must be transported and stored in tightly sealed bags, in dry conditions (most preferably on pallets). Protect against humidity. Shelf life in conditions as specified is 12 months from the production date shown on the packaging. Content of soluble chromium (VI) in ready-to-use mix – ≤ 0.0002%.

## Packaging

Paper bags: 22.5 kg

Pallet: 1,080 kg in 22.5 kg bags

*The above information constitutes basic guidelines for the application of the product and does not release the user from the obligation of carrying out works according to engineering principles and OHS regulations.*

*At the time of publication of this product data sheet all previous ones become void. Date of update: 2016-03-31*