



## ATLAS ELASTYK

### highly flexible adhesive 2-10 mm

- for various types of ceramic, stone, concrete cladding and glass mosaic
- for small, medium and large size tiles
- for residential, commercial, public access buildings
- high bonding and flexibility
- for standard substrates – walls, plasters, screeds
- for plasterboards
- for floor and wall heating systems, sealing coats, façades



### Optimum formula

ATLAS ELASTYK is a standard cement adhesive of improved bonding to be used with ceramic, stone and glass cladding of any type. Owing to the special recipe ATLAS ELASTYK offers:

- **wide range of use** – owing to bonding additives, the adhesive is characterized by high bonding to various tile types (also large size ones) and substrates,
- **easy and quick application** – more effective tiling owing to extended open time and reduced slip,
- **durability** – owing to flexibility, the adhesive is characterized by improved resistance to thermal and mechanical loads (e.g. with floor and wall heating system, plasterboards, elastic damp proofing of WODER E, WODER W or WODER DUO type).

### Properties

ATLAS ELASTYK is manufactured as a dry mix of high quality cement binder, aggregates and special composition of modifiers.

**With improved bonding** – minimum bonding to the substrate is 1.0 N/mm<sup>2</sup>.

**Much easier application** – mortar is easy to mix and apply, does not slip of a trowel.

**Range of adhesive thickness (2-10 mm) enables:**

- thin-coat cladding fixing on even substrates,
- thin-coat cladding fixing on uneven substrates, preceded by substrate floating,
- Extended open time** - allows placing the tiles even 30 minutes since the mortar application – it can be once applied onto larger surface and therefore minimize the time of work.

**Reduced slip** - enables fixing the cladding "from the top" – proper consistency and layer thickness eliminate the adhesive slip. Therefore one can tile from the wall top and avoid cut-to-size tiles on exposed wall zones.

### Use

**Fixing ceramic and stone cladding of any type** - glazed tiles, terracotta, porcelain-gres tiles, clinker, stone, ceramic mosaic, concrete and cement tiles, marble / natural stone cladding insusceptible to discolouration, glass mosaic and tiles. If in doubt conduct an application test.

**Fixing small, medium and large size claddings** - small and medium size tiles (< 0.1 m<sup>2</sup>), large size tiles (< 0.25 m<sup>2</sup>).

**Fixing cladding on horizontal and vertical surfaces, indoors and outdoors:**  
- in residential, public access, healthcare, commercial and service, sacral buildings,  
- in kitchens, bathrooms, laundries, garages, communication routes, on balconies, loggia, external slab stairs, plinths, surfaces of low and moderate traffic.

**Fixing cladding on standard substrates** - 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.

**Fixing the cladding on deformable substrates or, so called, difficult substrates** – concrete, mineral, dispersion and reactive sealing coats, screeds (cement and anhydrite) with water and electric heating system or with heating mats embedded, plasters with wall heating system, plasterboards, gypsum-fibre boards, cement-fibre boards.

### Technical data

Mass bulk density (after mixing)	approx. 1.4 kg/dm <sup>3</sup>
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
Adhesive preparation temperature, substrate and ambient temperature during work	from +5°C to +25°C
Maturing time	5 minutes
Pot life*	approx. 4 hours
Open time*	min. 30 minutes
Adjustability time*	10 minutes
Floor access/ grouting*	after 24 hours
Full operation load – foot traffic*	after 3 days
Full operation load – vehicle traffic*	after 14 days
Floor heating (warm surface)*	after 14 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 C2TE class adhesive. EC Declaration of Performance No. 213/CPR.

CE 2007, 0767	PN-EN 12004+A1:2012 (EN 12004:2007+A1:2012)
Cement adhesive for tiles of enhanced parameters, extended open time and reduced slip C2TE type	for indoor and outdoor use, for walls and floors
Reaction to fire – class	A1 A1 <sub>n</sub>
Bonding strength - initial bonding	≥ 1.0 N/mm <sup>2</sup>
Durability - bonding after: - heat exposure - immersion in water - freeze-thaw cycles	≥ 1.0 N/mm <sup>2</sup> ≥ 1.0 N/mm <sup>2</sup> ≥ 1.0 N/mm <sup>2</sup>
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, 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 20 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 listed in the table below refers to application upon even substrates. Substrate irregularities increase the actual mortar consumption.

Tile size [cm]	Place of application	Recommended notch size [mm]	Consumption [kg/m <sup>2</sup> ]
2 x 2	wall	4	1.3
	floor	4	1.3
10 x 10	wall	4	1.3
	floor	6	2.0
15 x 60	wall	6	2.0
	floor	8	2.5
20 x 25	wall	6	2.0
	floor	8	2.5
25 x 40	wall	6	2.0
	floor	8	2.5
30 x 30	wall	6	2.0
	floor	8	2.5
30 x 60	wall	8	2.5
	floor	10	3.0
40 x 40	wall	8	2.5
	floor	10	3.0
50 x 50	wall	8	2.5
	floor	10	3.0

## 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. Tiles subject to discolouration in contact with grey cement should be applied with the use of adhesives based on white cement binder.
- 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

Foil bags: 25 kg

Pallet: 1,200 kg in 25 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: 2017-04-24*