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TO THE EUROPEAN STANDARD

ATLAS ELASTIFIED ADHESIVE MORTAR

general-use adhesive 2-10 mm

- for ceramic tiles, including mosaics and glaze
- for small and medium format tiles
- for kitchens, bathrooms, corridors, laundry rooms, garages
- allows tiles to be stuck from the top of the wall
- extended open time



FOR WALLS
AND FLOORS



LAYER
THICKNESS



FROST
AND WATERPROOF



FOR INTERIOR
AND EXTERIOR USE

Flexible formula

The improved working parameters of the adhesive make working with the mortar easy and pleasant. By enriching the adhesive with elasticising additives, it meets the expectations of the tiler at every stage of the work.

Mixing. The adhesive is less prone to aeration and forms a homogeneous mixture - homogeneous in terms of the distribution of the ingredients throughout the prepared mass. This property, supported by the ideal selection of the aggregate stack, provides the adhesive layer with the highest strength.

Application with trowel. The adhesive has an optimised viscosity, guaranteeing loss-free transfer from container to trowel and from trowel to substrate.

Applying to the substrate. The adhesive spreads perfectly over the surface - the adhesion forces of the mortar are high enough to prevent the adhesive from 'rolling off' the trowel (with a properly primed substrate).

Bonding the tile. The ideal viscosity allows easier handling of the tile to be fixed.

Properties

ATLAS ELASTIFIED ADHESIVE MORTAR is a mixture of the highest quality cement binder, aggregates and a special composition of modifying agents, including polymers. The refined formula gives the product the highest technical parameters in its class and is widely used in residential construction:

- **wide range of adhesive layer thicknesses (2-10 mm)**, and therefore allows thin-layer adhesion of the cladding even on uneven substrates and allows the levelling of mineral substrates,
- **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,
- **lowered run-off**, which makes it possible to install ceramics 'from above' and avoids sticking cut tiles onto the exposed surface,
- **wide range of applications in residential construction:** bathrooms, kitchens, corridors, garages, stairwells, walls and floors.

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	+

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

FORMATS OF THE ELEMENTS TO BE FIXED	
small and medium-sized tiles (≤ 0.1 m ²) and length of the larger side ≤ 40 cm	+

TYPES OF FACILITIES	
housing construction	+
public buildings, offices, health care facilities, commercial and service buildings, religious buildings - low-use areas	+

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

substrate type - standard	
concrete	+
cement floors and screeds	+
anhydrite screed	+
cement and cement-lime plasters	+
gypsum plasters	+
cellular concrete walls	+
brick or silicate block walls	+
brick or hollow brick walls	+
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 1.05 ÷ 1.2 l / 5 kg 2.1 ÷ 2.4 l / 10 kg 5.25 ÷ 6.00 l / 25 kg
Min./max. adhesive thickness (tile bonding or surface filling)	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. 30 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 C1TE - adhesive for tiles, cementitious, normally setting, with extended open time and reduced run-off, for indoor and outdoor use on walls and floors.

ATLAS ELASTIFIED ADHESIVE MORTAR (2019) Declaration of performance 001-1/1/CPR EN 12004:2007+A1:2012	
Intended use: all internal and external tiling	
Reaction to fire	A1 WT/A1 _{if} 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 substrates with greater irregularities, e.g.: - 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 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.

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

Cladding application

Preparation of the adhesive

Pour the contents of the bag into a bucket with a measured amount of clean 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

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

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.

In the case of tiles laid on floors and outdoor cladding, 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 underside of the tile).

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 mortars, e.g. ATLAS CERAMIC GROUT, is recommended for grouting the cladding. It is possible to step on the cladding and start grouting after approx. 24 hours from 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 one of the silicones: ATLAS SANITARY SILICONE SILTON S or ATLAS ELASTIC SANITARY SILICONE.

Consumption

Tile size [cm]	Place of application	Recommended trowel tooth size [mm]	Consumption rate [kg/m ²]
2 x 2	wall	4	1,7
	flooring	4	1,7
10 x 10	wall	4	1,7
	flooring	6	2,4
20 x 25	wall	6	2,4
	flooring	8	3,1
25 x 40	wall	6	2,4
	flooring	8	3,1
30 x 30	wall	6	2,4
	flooring	8	3,1

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.

Packaging

Paper bags: 10 kg, 22.5 kg, 25 kg.

Alubag: 5 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 (shelf life) is: - 12 months from the production date on the packaging, in the case of paper bags,
- 24 months from the production date on the packaging for alubag.

Important additional information

Do not soak the tiles before gluing. When determining the thickness of the adhesive underneath 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 the tiles on weak substrates with a bearing capacity that is difficult to determine (e.g. dusty, not easy to clean), it is recommended to carry out an adhesion test, consisting of gluing the tile and checking the bond after 48 hours.

The open time - from applying the adhesive to the substrate to applying the tiles to it - is limited. To check whether it is still possible to stick 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, immediately after using the adhesive. Difficult to remove remains of the bonded adhesive should be washed off with ATLAS SZOP.

The information contained in this Technical Data Sheet 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, 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 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 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 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. 2 days for a thickness of 6-10 mm - after approx. 3 days for a thickness of 11-20 mm - after approx. 4 days for a thickness of 21-30 mm
Other cement mortar 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 - 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. 7 days for a thickness of 2.5-4.0 cm - approx. 14 days for a thickness of 4.1 to 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
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	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 FAST DRYING LIQUID FOIL WODER E or ATLAS LIQUID FOIL WODER W Plasterboard should be removed
Mortar levelled substrates ATLAS ZW 330	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
Concrete floors	Seasoning time minimum 3 months Optimum moisture content < 4% by weight CM 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