

ATLAS GEOFLEX WHITE highly flexible gel adhesive

2-15 mm

EUROPEAN STANDARD

 natural stone, marble, ceramic tiles, porcelain stoneware, mosaic, glass bathroom, kitchen, balcony, terrace

ideal flow and no run-off, even with large formats

- on difficult substrates such as: old tiles, terrazzo, plasterboard and OSB, waterproofing, underfloor heating
- two mixing waters adjust the consistency as needed



UNIQUE GEL TECHNOLOGY

The formulation of ATLAS GEOFLEX WHITE adhesive uses innovative silicate gel technology. Silicate gel has an exceptional ability to bind water. Accumulation of part of the batch water ensures full hydration of the cement, regardless of the type of cladding to be glued. Thanks to the proper management of the water required to complete the setting process, the gel adhesive guarantees full adhesion to substrates with varying degrees of absorption.

The use of silicate gel technology offers the following benefits:

- the possibility of bonding any type of cladding, both absorbent and non-absorbent,
- it is possible to optimally adapt the consistency of the adhesive to the individual preferences of the contractor and the needs of the application specific application, by dosing water over a much wider range than with traditional adhesives,
- achieving full spreading of the adhesive under the panels, which improves the adhesion and durability of the fixing, especially in external applications,
- safe bonding of coverings on substrates exposed to direct sunlight, both during tiling work and while the adhesive mortar is setting (e.g. on balconies, terraces, etc.).

Properties

ATLAS GEOFLEX WHITE is produced as a dry mixture of the highest quality cement binder, aggregates and specially selected modifying agents: natural and synthetic.

The use of white cement reduces the occurrence of discolouration of natural stone and marble cladding.

Ideal for bonding glass mosaics and for joining fused glass - due to its high adhesion and white cement.

The wide range of adhesive layer thicknesses (2-15 mm) allows:

- thin-bedding of cladding on an even substrate,

- thin-bedding of cladding on uneven substrates, preceded by levelling mudding,

- Thick-coat bonding of cladding on uneven substrates without the need for levelling compound.

Zero cladding run-off - provides the opportunity to glue the cladding 'from the top down', without the need to support it at the installation stage.

It is possible to step on and grout the tile after only 12 hours - due to the accelerated drying process of the mortar under the tile.

Purpose

TYPES OF TILES TO BE GLUED	
glaze	+
terracotta	+
porcelain stoneware	+
laminated stoneware	use ATLAS ULTRA GEOFLEX
marble / natural stone cladding sus- ceptible to discolouration	+
stain-resistant marble / natural stone cladding	+
clinker	+
stoneware	+
ceramic mosaic	+
glass mosaic	+
glass plates, coloured, printed, etc.	perform an application test* and check the recommen- dations of the tile manu- facturer
concrete / cement mortar tiles	+
composite panels	use ATLAS ULTRA GEOFLEX
insulation and soundproofing panels	use ATLAS ULTRA GEOFLEX

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

FORMATS OF THE ELEMENTS TO BE GLUED	
small, medium and large format tiles: $\leq 0.50 \text{ m}^2$ and with the length of the larger side $\leq 100 \text{ cm}$	+
large tile format (> 0.50 m²)	use ATLAS ULTRA GEOFLEX
slim discs	use ATLAS ULTRA GEOFLEX

TYPES OF FACILITIES	
housing construction	+
public, educational, office and healthcare buildings	+
commercial and service construc- tion	+
religious buildings	+
industrial buildings and multi-storey	use
garages	ATLAS ULTRA GEOFLEX
industrial warehouses	use ATLAS ULTRA GEOFLEX
traffic construction	use ATLAS ULTRA GEOFLEX
SPA facilities - rooms with low oper-	use
ational loads	ATLAS ULTRA GEOFLEX

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

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

substrate type - difficult	
concrete	+
terrazzo	+
mineral, dispersion and reactive seal- ing coatings	+
dry gypsum board underlays	+
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)	only inside
resin varnishes for concrete bound to the substrate	+
dispersion oil-bonded coatings	+
plank floors (thickness >25mm)	use ATLAS ULTRA GEOFLEX
wood-based flooring panels , minimum 22 mm thick, fixed with ATLAS M-System fasteners	+
OSB/3, OSB/4 and particle board on the floor (thickness > 25mm)	+
OSB/3, OSB/4 and particle board on the wall (thickness > 18mm)	+
metal and steel surfaces	use ATLAS ULTRA GEOFLEX
plastic surfaces	use ATLAS ULTRA GEOFLEX

ATLAS GEOFLEX WHITE adhesive is also used for filling the abovementioned standard and difficult substrates.

Technical data

Bulk density	approx. 1.4 g/cm³
Mixing ratio (water/dry mix)	0.26 ÷ 0.33 / 1 kg 1.30 ÷ 1.65 / 5 kg 5.85 ÷ 7.43 / 22.5 kg 6.50 ÷ 8.25 / 25 kg
Min/max. adhesive thickness	2 mm ÷ 15 mm
Temperature of the adhesive prepara- tion and of the substrate and sur- roundings during the work	from +5 °C to +35 °C
Maturation time	5 minutes
Service life (stand-by time)*	approx. 4 hours
Open time*	min. 30 minutes
Adjustability*	20 minutes
Walking on the floor/jointing*	after 12 hours
Full operational loads - pedestrian traffic*	after 3 days
Full operational loads - wheeled traf- fic*	after 14 days

*) The times shown in the table are recommended for application conditions of approx. 23 $^\circ C$ 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 GEOFLEX WHITE 2019 Declaration of performance 200/1/CPR EN 12004:2007+A1:2012	
Intended use: all internal and external tiling	
Reaction to fire	A1/A1 _{fl}
Bond strength defined as: -initial bonding	≥ 1.0 N/mm²
Bond durability in conditioning/thermal ageing conditions defined as: -bonding after thermal ageing	≥ 1.0 N/mm²
Bond durability in water/damp conditions de- fined as: -bonding after immersion in water	≥ 1.0 N/mm²
Bond durability in freeze-thaw cycles condi- tions defined as: -bonding after freeze-thaw cycles	≥ 1.0 N/mm²

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 15 mm, for levelling the substrate in case of larger irregularities, for example:

- ATLAS ZW 330 levelling mortar,

- ATLAS MMS SMS, 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; those 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 - recommended for critical substrates,

insulated - when laying tiles on surfaces that are exposed to water: - ATLAS QUICK-DRYING LIQUID FOIL WODER E,

- ATLAS QUER-DRIING EIQUID FOIL WO

- ATLAS WODER SX.

- ATLAS WODER SX,

- ATLAS WODEN DOO.

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

Bonding the cladding

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 recommended to first rub a thin layer of adhesive into the substrate and then apply a thicker layer of adhesive, immediately profiling it 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 outdoor cladding, it is recommended that the bonding surface should be complete (if necessary, use a combined method of applying adhesive mortar to the substrate and to the underside 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 up to approximately 20 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 approximately 12 hours after the tiles have been glued. 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 SANITARY SILICONE 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 the adhesive mortar.

Tile size [cm]	Place of applica- tion	Recom- mended trowel tooth size [mm]	Consump- tion rate [kg/m] ²
2 × 2	wall	4	1,4
2 x 2	flooring	4	1,4
10 10	wall	4	1,4
10 x 10	flooring	6	2,2
15	wall	6	2,2
15 x 60	flooring	8	2,8
20 x 25	wall	6	2,2
20 x 25	flooring	8	2,8
25 - 40	wall	6	2,2
25 x 40	flooring	8	2,8
20 20	wall	6	2,2
30 x 30	flooring	8	2,8
20 × 60	wall	8	2,8
30 x 60	flooring	10	3,4
40 40	wall	8	2,8
40 x 40	flooring	10	3,4
50 50	wall	8	2,8
50 x 50	flooring	10	3,4
60 x 60	wall	10	3,4
60 X 60	flooring	12	4,3
70 70	wall	10	3,4
70 x 70	flooring	12	4,3
tiles of the type	wall	8	2,8
board*, e.g. 20 x 90 or 15 x 100	flooring	10	3,4

*for plank-type tiles, a combined laying method is recommended

If the so-called combined method is used, the adhesive consumption will increase. When bonding floor coverings, using a 12 mm trowel with semi-circular teeth (flowing consistency 8.25 | water/25 kg mortar) - consumption 4.6 kg/m².

Packaging

Plastic bags 25 kg Plastic bags 22.5 kg Alubags 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.

Product shelf life (shelf life) of mortar:

- in plastic bags is 12 months from the production date on the packaging.

- in alubag bags is 24 months from the production date on the packaging.

Important additional information

Spreading under tile is achieved using a quantity of baking water from the upper end of the mixing ratio range, i.e. approximately 0.33 l per 1 kg of dry mix. Zero run-off is achieved using a quantity of baking water from the lower end of the mixing ratio interval, i.e. approximately 0.26 l per 1 kg of dry mix.

When cladding a balcony or terrace, the screed should be divided by expansion joints into areas of max. $3 \times 3 \text{ m}$. It is possible to increase the size of the screed dilatation fields up to 25 m^2 provided that forced dilatation is carried out in the cladding itself (min. 4 cladding fields recommended, each with an area of up to 9 m^2). When making the expansion fields, observe the requirement that the ratio of the shorter side to the longer side should be between 1:1 and 1:2. The expansion joints of the substrate should be transferred to the cladding and filled with e.g. ATLAS ELASTIC SANITARY SILICONE. Forced expansion joints should be filled with e.g. ATLAS ELASTIC SANITARY SILICONE. The minimum thickness of the adhesive after pressing the tiles should be 4 mm. The adhesive must fill the entire space between the tile and the substrate.

All indicated technological break times, technical parameters of the product, etc. refer to standard setting conditions, i.e. at the temperature: +23°C (+/-2°), relative humidity: 55% (+/- 5%) and substrates defined in EN 1323 and tiles according to EN 176. In other heat and humidity conditions the indicated times may change.

Do not soak the tiles before gluing. When determining the thickness of the adhesive under the cladding to be glued, geometric deviations in the shape of the tiles, e.g. curling of the plane, must be taken into account.

Before fixing the glass element tiles, it is necessary to carry out an application test. For this purpose, one tile should be glued 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 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 glue remains on the fingers, then the tiles can be glued. 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 Data 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. The documents accompanying the product are available at www.atlas.com.pl.

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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.

Newly manufactured cementitious screeds	Moisture content of the substrate 4.0 % CM	
ATLAS POSTAR 10	- after approx. 1.5 days for a substrate thickness of 1.0-3.0 cm	
	- after approx. 3 days for a substrate thickness of 3.1-5.0 cm	
	- after approx. 9 days for a substrate thickness of 5.1-10.0 cm	
Newly manufactured cementitious screeds	Moisture content of the primer 4.0 % CM	
ATLAS POSTAR 20	- after approx. 1 day for an undercoat thickness of 1.0-3.0 cm	
	- after approx. 2 days for a substrate thickness of 3.1-5.0 cm	
	- after approx. 5 days for a substrate thickness of 5.1-8.0 cm	
Newly manufactured cementitious screeds	Moisture content of the primer 4.0 % CM	
ATLAS POSTAR 60	- after approx. 6 hours for a substrate thickness of 1.0-3.0 cm	
	- after approx. 12 hours for a substrate thickness of 3.1-5.0 cm	
	- after approx. 40 hours for a substrate thickness of 5.1-8.0 cm	
Newly manufactured cementitious screeds	Moisture content of the primer 4.0 % CM	
ATLAS POSTAR 80	- after approx. 3 hours for a substrate thickness of 1.0-3.0 cm	
	- after approx. 6 hours for a substrate thickness of 3.1-5.0 cm	
	- after approx. 18 hours for a substrate thickness of 5.1-8.0 cm	
Newly manufactured cementitious screeds	Moisture content of the primer 4.0 % CM	
ATLAS SMS 15	- after approx. 8 hours for an undercoat thickness of 1-15 mm	

Newly manufactured cementitious screeds	Moisture content of the substrate 4.0 % CM
ATLAS SMS 30	- after approx. 18 hours for an undercoat thickness of 3-5 mm
	- after approx. 48 hours for an undercoat thickness of 6-10 mm
	- after approx. 72 hours for a substrate thickness of 11-20 mm
	- after approx. 96 hours for an undercoat thickness of 21-30 mm
Newly manufactured cementitious screeds AT-	
LAS SMS 80	Moisture content of the substrate 4.0 % CM
LAS SMS 80	- after approx. 4 days for a thickness of 25-40 mm
	- after approx. 6 days for a thickness of 41-60 mm
	- after approx. 9 days for a thickness of 61-80 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	Required moisture content of the substrate 1.0 % CM
MMS 60	- 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	Moisture content of the screed 1.0 % CM
ATLAS SAM 100	- 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 AT-	Moisture content of the screed 1.0 % CM
LAS SAM 200	- approx. 10 days for a thickness of 2.5-4.0 cm
	- approx. 21 days for a thickness of 2.5 4.0 cm
	If a white surface deposit has appeared while the primer is drying, it should be removed
	chanically 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	Attention. When the substrate is a screed with sunken underfloor heating, it must abs
heating (heating screed)	lutely be heated. Information on the heating of ATLAS screeds is given in their technica
	data sheets.
	uata sheets.
	Tiles with ATLAS GEOELEX WHITE can be adhered both on and off underfloor beating:
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Bricks or hollow bricks of calcium-silicate, ce- ramic or cellular concrete	 when the tiles are applied on a screed with the underfloor heating switched off, ther underfloor heating may be activated after a minimum of 14 days, when the tiles are installed on a screed with the underfloor heating system switched the temperature of the screed must be stabilised and may not exceed +35 °C. For the 14 days after the installation of the tiles, the temperature of the screed must not excee +35 °C. It is not possible to adhere tiles to other types of operating (switched on) underfloor ing, embedded e.g. in an adhesive layer. A two-layer render (render + filler) trowelled to a rough finish is required. Bonding direct unrendered masonry is only possible if the geometric requirements of the substrate are
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Recommended compressive strength > 4 MPa

- ATLAS GRUNT NKP (ready to use - without dilution)

Prime with one of the emulsions:

Gypsum plasters

	- 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 WODER E or WODER W.
	Plastering should be removed.
Mortar levelled substrates	Moisture content of the screed 1.0 % CM
ATLAS ZW 330	- 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	- ATLAS FAST-DRYING LIQUID FOIL WODER E- possibility to install the cladding after 2 hours
WODER DUO, ATLAS QUICK-DRYING LIQUID	for damp proofing and after 4 hours for waterproofing.
FILM WODER E, ATLAS LIQUID FILM WODER W	- ATLAS LIQUID FOIL WODER W - possibility to install the cladding after 24 hours
and ATLAS WODER SX.	- ATLAS WODER DUO - possibility to install the cladding after 12 hours
	- ATLAS WODER SX - possibility to install the cladding after 40 hours
Terrazzo	Thoroughly degrease the surface and, in the case of pasted terrazzo, remove the top part or
	all of it and make a new primer. Prime with ATLAS ULTRAGRUNT.
Oil paint and resin varnish coatings	Remove coats with low adhesion to the substrate mechanically. Stable coatings well bonded
	to the substrate: sand, vacuum; oil-based coatings should be primed with ATLAS UL-
	TRAGRUNT. Remove gypsum putty based on which the substrate has been levelled.
OSB and plank flooring	- the layering should be designed and executed so as to prevent deformation that could
	damage the cladding
	- OSB/3 and OSB/4 boards (according to PN-EN 300:2007) with a thickness of at least 25 mm
	(22 mm in case of installation on ATLAS M-system) can be used on floors, and boards with
	a thickness of at least 18 mm on walls.
	- the system must not buckle under operating loads
	- for proper adhesion to the tile adhesive, roughen the surface of the substrate with 40-60
	grit sandpaper and clean off any dust.
	- prime with ATLAS ULTRAGRUNT
	- In rooms with higher humidity, possible swelling of the OSB boards (check the values de-
	clared by their manufacturer) or deformation of the boards must be taken into account. In
	this case, the system constituting the substrate for the tiles should be protected against
	moisture. ATLAS LIQUID FOIL WODER W or FAST-DRYING LIQUID FOIL WODER E water-
Existing ceramic or stone tiling (interior only)	proofing can be used for this purpose. - assess the adhesion of the existing cladding to the substrate by tapping the
LAISTING CELATING OF STONE LINNING (INTERIOR ONLY)	- Remove any old tiles that have become detached from the substrate.
	- fill cavities, e.g. with ATLAS ZW 330 mortar
	- Thoroughly clean and degrease the surfaces of the remaining tiles.
	- roughen glazed tiles with a diamond disc grinder.
	- clean all dust
	- prime with ATLAS ULTRAGRUNT