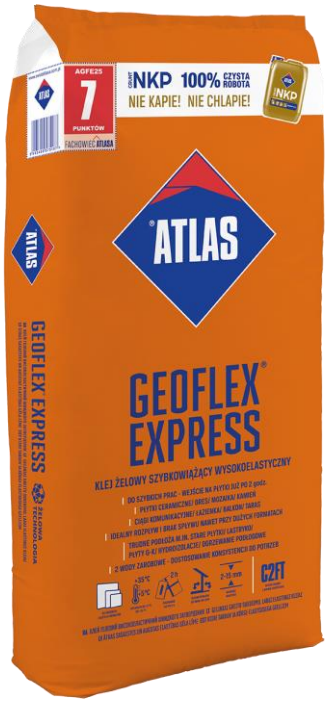


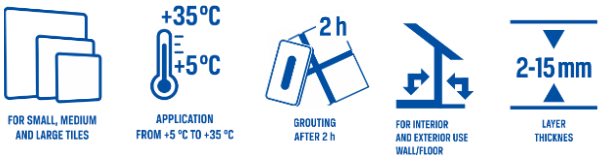
ATLAS GEOFLEX EXPRESS

quick-setting gel adhesive highly elastic, 2-15 mm

C2FT

PRODUCT CONFROMS TO THE EUROPEAN STANDARD

- for quick work - foot traffic after only 2 hours
- grouting just after 2 hours
- installation of ceramic and stone tiles, porcelain stoneware, mosaics
- for use in communication routes, bathrooms, balconies and terraces
- perfect spread and no slip even with large tiles
- for critical substrates e.g. old tiles, terrazzo, plasterboards, damp-proofing, floor heating, concrete and OSB
- wide range of mix water - consistency adjusted to the needs
- ▪ for filling, thin- and thick-coat bonding
- ▪ application in temperatures from +5°C up to +35°C



UNIQUE GEL TECHNOLOGY

ATLAS GEOFLEX EXPRESS adhesive uses innovative silicate gel technology in combination with fast-setting cement. This makes it possible to obtain:

- very rapid pre-setting, eliminating the possibility of building salts building up under the tiles and in their structure,

- rapid increases in adhesion and strength.

Silicate gel has a unique ability to bind water. Accumulation of part of the mixing water ensures full hydration of the cement, regardless of the type of cladding to be bonded. 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 in combination with fast-setting cement offers the following benefits:

- can be grouted after just 2 hours for rapid repair work,
- 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 cladding on substrates exposed to direct sunlight (as long as the temperature does not exceed the permissible value), both during the tiling work and during the setting of the adhesive mortar.

Properties

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

Fast performance - the use of fast-performance cement in the adhesive allows very rapid increases in adhesion and strength, especially in the initial period (first 2-3 hours after bonding the tiles. This allows the tiles to be stepped on and grouted as early as 2 hours after bonding - the adhesive is also recommended for quick repairs of ceramic cladding (e.g. on balconies, terraces, etc.).

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

- thin-bedding of cladding on an even substrate,
- thin-bedding of coverings on uneven substrates, preceded by levelling mudding,
- Thick-coat bonding of coverings on uneven substrates without the need for levelling compound.

No cladding run-off - gives the opportunity to bond the cladding 'from the top down', without the need to support it at the installation stage.

No settling of tiles during setting - so you can continue interrupted cladding work without fear of lowering the level of the tiles to be bonded (after they have set).

It is insensitive to varying weather conditions - allowing cladding work to be carried out quickly and safely in a wide range of weather conditions. The rapid performance of the adhesive reduces the possibility of damage to cladding carried out outside the building during the installation stage.

Purpose

TYPES OF TILES TO BE BONDED	
glaze	+
terracotta	+
porcelain stoneware	+
laminated stoneware	use ATLAS ULTRA GEOFLEX
natural stone cladding (granite, marble, travertine, syenite, slate, etc.).	perform an application test*
clinker	+
stoneware	+
ceramic mosaic	+
glass mosaic	perform an application test*
glass plates, coloured, printed, etc.	perform an application test* and check the recommendations of the tile manufacturer
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 BONDED	
small, medium and large format tiles: ≤ 0.50 m² and with the length of the larger side ≤ 100 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 construction	+
religious buildings	+
industrial buildings and multi-storey garages	use ATLAS ULTRA GEOFLEX
industrial warehouses	use ATLAS ULTRA GEOFLEX
traffic construction	use ATLAS ULTRA GEOFLEX
SPA facilities	use ATLAS ULTRA GEOFLEX

PLACE OF INSTALLATION	
low-traffic areas	+
medium traffic areas	+
high traffic areas	+
kitchen, bathroom, laundry room, garage (in individual housing)	+
terraces	+
balconies, loggias	+
external panel staircase	+
external beam stairs, e.g. cantilever 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, jacuzzis, balneotechnology (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 quantities of water	+

substrate type - standard	
cement floors and screeds	+
anhydrite primers	+
cement and cement-lime plasters	+
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 sealing coatings	+
dry gypsum board substrates	+
screeds (cement or anhydrite) with embedded heating, either water-based or electric	+
underlays 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 EXPERSS adhesive is also used for filling the above-mentioned standard and difficult substrates.

Technical data

Bulk density	approx. 1.4 g/cm³
Mixing ratio (water/dry mix)	0.24 ÷ 0.30 l / 1 kg 5.4 ÷ 6.75 l / 22.5 kg 6.0 ÷ 7.5 l / 25 kg
Min/max. adhesive thickness	2 mm ÷ 15 mm
Temperature of the adhesive preparation and of the substrate and surroundings during the work	from +5 °C to +35 °C
Maturation time	5 minutes
Service life (stand-by time)*	approx. 45 minutes (mixing ratio 0.24 l/kg approx. 75 minutes (mixing ratio 0.3 l/kg
Open time*	min. 20 minutes
Adjustability*	10 minutes
Walking on the floor/jointing*	after 2 hours
Pedestrian traffic load**	after 2-6 hours
Full operational loads - wheeled traffic**	after approx. 24 hours

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

**) The times shown in the table are recommended for application conditions at approx. 23 °C and 55 % humidity, with an adhesive layer thickness of up to 5 mm. At lower temperatures and higher adhesive thicknesses, they may become longer. Storage of the product in open packaging may increase the setting time.

Technical requirements

The product complies with the requirements of EN 12004+A1:2012 - C2FT - adhesive for tiles, cementitious tile adhesive with increased parameters, fast-setting, with reduced run-off, for indoor and outdoor use on walls and floors.

ATLAS GEOFLEX EXPRESS (2020) Declaration of performance 229/CPR EN 12004:2007+A1:2012	
Intended use: all internal and external tiling	
Reaction to fire	A1/A1$_{fl}$
Joint strength expressed as: - initial adhesion - early adhesion	 ≥ 1.0 N/mm² ≥ 0.5 N/mm²
Joint durability under conditioning / thermal ageing conditions expressed as: - adhesion after thermal ageing	≥ 1.0 N/mm²
Joint durability under water/moisture conditions expressed as: - adhesion after immersion in water	≥ 1.0 N/mm²
Joint durability under freeze-thaw cycling conditions expressed as: - adhesion 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,
- ATLAS GRUNTO-PLAST,

insulated - when laying tiles on surfaces that are exposed to water:
- ATLAS FAST-DRYING LIQUID FOIL WODER E,
- ATLAS LIQUID FOIL WODER W,
- ATLAS WODER SX,
- ATLAS WODER DUO.

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 the time period described in the Technical Data table.

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 is complete (if necessary, use a combined method of applying adhesive mortar to the substrate and to the underside of the tile).

Bonding the cladding

Once spread 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 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. 2 hours after the tiles have been bonded. 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 application	Recommended trowel tooth size [mm]	Consumption rate [kg/m]^2
2 x 2	wall	4	1,4
	flooring	4	1,4
10 x 10	wall	4	1,4
	flooring	6	2,2
15 x 60	wall	6	2,2
	flooring	8	2,8
20 x 25	wall	6	2,2
	flooring	8	2,8
25 x 40	wall	6	2,2
	flooring	8	2,8
30 x 30	wall	6	2,2
	flooring	8	2,8
30 x 60	wall	8	2,8
	flooring	10	3,4
40 x 40	wall	8	2,8
	flooring	10	3,4
50 x 50	wall	8	2,8
	flooring	10	3,4
60 x 60	wall	10	3,4
	flooring	12	4,3
70 x 70	wall	10	3,4
	flooring	12	4,3
tiles of the type board*, e.g. 20 x 90 or 15 x 100	wall	8	2,8
	flooring	10	3,4

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

When using the so-called combined method, the adhesive consumption will increase. When bonding floor coverings, using a 12 mm trowel with semi-circular teeth (flowing consistency 7.5 l water/25 kg mortar) - consumption 6.7 kg/m².

Packaging

Plastic bags 25 kg
22.5 kg plastic bags.
Alubag 5 kg bags

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) in plastic bags is 12 months from the date of manufacture on the packaging.
The shelf life of the product (use-by date) 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 0.30 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 0.24 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 x 3 m. It is possible to increase the size of the screeds dilatation fields up to 25 m^2 provided that forced dilatation is carried out in the cladding itself (recommended minimum of 4 cladding fields, each with a surface 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 ATLAS ELASTIC SANITARY SILICONE or ATLAS SANITARY SILICONE SILTON S. Forced joints should be ATLAS ELASTIC SANITARY SILICONE or ATLAS SANITARY SILICONE SILTON S. 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 bonded, geometric deviations in the shape of the tiles, e.g. curling of the plane, must be taken into account.

Before fixing natural stone tiles or glass elements, it is necessary to carry out an application test. For this purpose, one tile should be bonded 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 the application of the adhesive to the substrate to the application of the tiles - 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 bonded. 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 Information Sheets is a basic guideline for the use of the product and does not release you from 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.

The contents of the data sheet and the designations and trade names used therein are the property of Atlas Ltd. Their unauthorised use will be sanctioned.

Update date: 2023-09-22

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 **ATLAS POSTAR 10**	**Moisture content of the substrate 4.0 % CM** - after approx. 1.5 days for a primer 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 **ATLAS POSTAR 20**	**Moisture content of the substrate 4.0 % CM** - 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 **ATLAS POSTAR 60**	**Moisture content of the substrate 4.0 % CM** - 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 **ATLAS POSTAR 80**	**Moisture content of the substrate 4.0 % CM** - 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 **ATLAS SMS 15**	**Moisture content of the substrate 4.0 % CM** - after approx. 8 hours for an undercoat thickness of 1-15 mm
Newly manufactured cementitious screeds **ATLAS SMS 30**	**Moisture content of the substrate 4.0 % CM** - 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 **ATLAS SMS 80**	**Moisture content of the substrate 4.0 % CM** - 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 anhydrite screed **ATLAS SAM 100**	**Moisture content of the substrate 1.0 % CM** - 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 hybrid floor screed **ATLAS MMS 60**	**Required moisture content of the substrate 1.0 % 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 screed **ATLAS SAM 200**	**Moisture content of the substrate 1.0 % CM** - 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 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
Cement and anhydrite screeds with underfloor heating (heating underlay)	**Attention.** If the screed is an substrate with sunken underfloor heating, it must absolutely be heated. Information on the heating of ATLAS screeds is given in their technical sheets. Tiles using ATLAS GEOFLEX EXPRESS adhesive can be bonded both on and off underfloor heating: - when the tiles are laid on a screed with the underfloor heating **switched off**, the heating can be started after a minimum of 7 days, - when the tiles are installed on a screed with underfloor heating on, the temperature of the screed must be stabilised and may not exceed +35 °C; for the following 7 days after the installation of the tiles, the temperature of the screed must be maintained at no more than +35 °C. **The bonding of tiles to other types of operating (switched on) sub-tile heating, embedded in e.g. an adhesive layer, is excluded.**

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% CM** **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 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 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 making an insulating coating with ATLAS WODER E or WODER W. Plastering should be removed.
Mortar levelled substrates **ATLAS ZW 330**	**Moisture content of the substrate 1.0 % CM** - 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 manufactured waterproofing by ATLAS	- ATLAS FAST-DRYING LIQUID FOIL WODER E - possibility to install the cladding after 2 hours for damp proofing and after 4 hours for waterproofing. - ATLAS LIQUID FOIL WODER W - possibility to install the cladding after 24 hours - ATLAS WODER DUO - possibility to install the cladding after 12 hours - ATLAS WODER SX - possibility to install the cladding after 40 hours
Lastryko	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 ULTRAGRUNT. 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 declared 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 ATLAS FAST-DRYING LIQUID FOIL WODER E waterproofing can be used for this purpose.
Existing ceramic or stone tile coverings	- the adhesion of the existing cladding to the substrate should be assessed by tapping the - 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 other tiles - roughen glazed tiles with a diamond disc grinder. - clean all dust - prime with ATLAS ULTRAGRUNT