



ATLAS WODER DUO EXPRESS

rapid two-component waterproofing

- waterproofing coat under ceramic tiles
- for balconies and terraces
- tiles fixing just after 3 hours
- two layers in a single cycle
- high elasticity, bridges scratches up to 0.75 mm



FOR WALLS AND FLOORS



LAYER THICKNESS



APPLY WITH BRUSH



APPLY WITH FLOAT

Properties

ATLAS WODER DUO EXPRESS is a two-component, polymer-cement waterproofing material with addition of special modifiers, resins and fibers. Consists of dry mix (component A) and an aqueous plastic dispersion (emulsion - component B) which should be mixed in 3:1 ratio.

High adhesion to the cement substrate - minimum 1.0 MPa.

Innovative technology of two-component waterproofing application - the second coat applied with the "wet on wet" method and tiles fixing just after 3 hours since the second coat application.

High water vapour permeability.

High elasticity - the mortar bridges scratches up to 0.75 mm wide, owing to:

- special polymer content
- use of proper aggregate grain size
- thorough selection of fillers
- polypropylene microfibre reinforcement.

Resistance to UV radiation – ceramic tiles can be applied up to 6 months since the waterproofing coat application.

Layer made of WODER DUO EXPRESS keeps high mechanical resistance and does not require additional reinforcement – owing to the use of reinforcing fibers and specially selected polymer resins the mortar offers improved resistance to mechanical damage and impacts. Coating is resistant to temporary light foot traffic loads.

Frost resistance - coating watertightness does not deteriorate during frost.

Use

ATLAS WODER DUO EXPRESS is designed for application of composite waterproofing coats underneath ceramic tiles on terraces, balconies, loggias and external stairs.

Allows application of flexible protection of corners and expansion joints – in combination with ATLAS SEALING TAPES, CORNERS and RINGS or ATLAS HYDROBAND 3G tape and corners, it protects edges of walls, screeds joints and expansion joints.

Seals areas around walls and floors, around water flow and sewage installation – in combination with WALL AND FLOOR RINGS.

TYPES OF WATERPROOFING

medium type (stading water)	+
heavy type (water under pressure)	use ATLAS WODER DUO

TYPES OF OBJECT

residential housing	+
public, educational, office and healthcare buildings	+
commercial and service construction	+
industrial construction	+
traffic construction	+
hotels, spa objects	+

PLACE OF APPLICATION

terraces	+
balconies, loggias	+
external slab stairs	+



substrate type - standard	
cement floors and screeds	+
anhydrite screeds	use ATLAS WODER E or ATLAS WODER W
cement and cement-lime plasters	+
Gypsum plastering in damp and wet areas of rooms	use ATLAS WODER E or ATLAS WODER W
cellular concrete walls*	+
brick or silicate block walls*	+
brick or ceramic block walls*	+
gypsum block walls*	use ATLAS WODER E or ATLAS WODER W

* plastering is not necessary if the masonry is well jointed

substrate type - difficult	
concrete	+
terrazzo	+
dry substrates made of plasterboards	use ATLAS WODER E or ATLAS WODER W
screeds (cement) with heating system embedded, water or electric one	+
plaster with wall heating system	+
plasterboards	+
gypsum fibre boards	+
cement fibre boards	+
existing ceramic or stone cladding (tile on tile)**.	+
resin varnishes for concrete, bonded with the substrate	+
epoxy resin coatings	+
timber floors (thickness >25mm)	+
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 > 25 mm)	+
OSB/3, OSB/4 and particle board on the wall (thickness > 18 mm)	+
metal and steel surfaces***	+
plastic surfaces	+

** if bearing capacity confirmed and full joints technology used

*** protected against corrosion

Technical data

Bulk density of component A	approx. 1.85 g/cm ³
Density of component B	approx. 1.00 g/cm ³
Substrate and ambient temperature during application*	from +3 °C to +30 °C
Max. single coat thickness	2 mm
Total thickness of the sealant coat	2 mm
Resistance to water under pressure	150 kPa (15 m water column)
Adhesion to concrete substrate	≥ 1,0 MPa
Pot life after components mixing **	approx. 45 minutes
Early resistance to rain	after 2 hours
Second coat application	directly after the first application (wet-on-wet method)

*When applying at cold weather, the ambient temperature shouldn't drop below 0°C during the first 6 hours since the waterproofing coat application.

** When the ambient temperature is above 20°C, the pot life after mixing can get shorter.

Technical requirements

ATLAS WODER DUO EXPRESS - two-component, polymer-modified, cement product, water resistant product used in liquid form, resistant to chlorinated water (CM P), for outdoor use and in swimming pools under ceramic tiles fixed with C2 adhesives (according to EN 12004).

ATLAS WODER DUO EXPRESS (2020) Declaration of performance No. 233/1/CPR EN 14891:2012 EN 14891:2012/AC:2012	
Intended use: any application underneath ceramic tiles, outdoors and in swimming pools..	
Initial adhesion	≥ 0.5 N/mm ²
Crack bridging ability: in normal conditions	≥ 0.75 mm
Durability of initial bonding to climatic impact/ thermal ageing: adhesion after thermal ageing	≥ 0.5 N/mm ²
Durability of initial bonding to water/ humidity: adhesion after immersion in water	≥ 0.5 N/mm ²
Durability of initial bonding to lime water: adhesion after immersion in lime water	≥ 0.5 N/mm ²
Durability of initial bonding to freeze/thaw cycles: adhesion after immersion freeze/thaw cycles	≥ 0.5 N/mm ²



Waterproofing

Substrate preparation

The substrate should be:

even and sound - i.e. strong, stable and free from dust, dirt, salt efflorescence and poorly bonded substrate elements, residues of old paints, oils, bitumen coatings and other substances which may impair the waterproofing bonding. Any stable substrate scratches wider than 0.75 mm and gaps must be mechanically widened and filled with cement mortar, e.g. ATLAS TEN-10 or ATLAS MONTER T-5. Dusty substrates must be grinded and dedusted. In case of non-plastered walls, the wall must be made with full joints.

seasoned - freshly applied cementitious surfaces can be waterproofed after they have been properly seasoned (refer: table Detailed guidelines concerning the substrate preparation, depending on its type.).

Note: during the seasoning period, the screed should be protected from rainfall.

free from technological moisture or moisture pulled up by capillary action from the ground - dried after precipitation, flooding, etc. Immediately prior to the application of the compound, the dry substrate should be superficially moistened with water until matt-wet state (leave no puddles).

Detailed guidelines concerning the substrate preparation, depending on its type, are shown at the end of the document.

Mass preparation

Product is manufactured as a set consisting of two components: dry mix (component A) and emulsion (component B) delivered in separate containers. The material preparation consists in pouring the liquid component (B) into an appropriate container, uniform adding of dry mix (A) and simultaneous stirring until homogeneous in consistency and color (approx. 2 min.). This operation should be performed mechanically with the use of a low-speed mixer. The mass is ready to use after approx. 5 minutes and remixing. It should be used up within approx. 45 minutes. Caution: While using only part of the product, the mass should be prepared by keeping the components weight ratio (3 parts of dry mix A and 1 part of emulsion B).

Waterproofing application

Directly before the mass application, the dry substrate should be slightly moistened up to the 'matt-wet' state, leave no puddle

Application should begin of protection of corners and areas around installations passing through walls and floors (with ATLAS SEALING TAPES, CORNERS AND RINGS or ATLAS HYDROBAND 3G accessories). The tape should be cut to size and placed on the layer of mass applied with a notched trowel of 6 mm notches or with a brush.

Excessive mass should be pressed out with the smooth trowel edge. The adjoining tapes should overlap by min. 5 cm. Apply the mass on the tape joints with a brush, press out the excessive mass.

Waterproofing coat should be applied in minimum two coats. The first one is a thin coat which should be applied with a steel trowel or a paintbrush, by rubbing the mass into the substrate.

Caution: the first layer should coat 100% of the surface intended for waterproofing.

The second coat should be applied directly after the application of the first one, as per the **"wet on wet" method**. It should be applied with a notched trowel of 6 mm notches. Then, the mass should be smoothed with the smooth trowel edge. Caution: when the first coat gets dry and it's not possible to apply the second coat with the "wet on wet" method, then it is acceptable to apply it when the first coat sets. In that case, the second coat should be applied 2 hours since the first coat application.

Finishing work

Protect the sealed surfaces from precipitation and free water action for approx. 2 hours. The coat formed after setting can be covered with ceramic cladding after ca. 3 hours. Adhesives of C2 class are recommended for fixing tiles, e.g. ATLAS GEOFLEX, ATLAS ULTRA GEOFLEX or adhesives from the ATLAS PLUS line.

Consumption

The total thickness of the coating should be selected according to the water exposure conditions of the surface to be sealed.

Type of waterproofing	Coating thickness [mm].	Consumption kg/m ²
medium type (stading water)	2,0	approx. 2,4

Packaging

Set of 24 kg:

- component A – paper bags 2 x 9 kg,
- component B – plastic drum 6 kg.

Set of 12 kg:

- component A - paper bag 1 x 9 kg,
- component B – plastic drum 3 kg.

Safety information

Safety information is provided on the product packaging and in the Material Safety Data Sheet available at www.atlas.com.pl.

Storage and transport

Information on storage and transport is provided on the product packaging and in the Material Safety Data Sheet available at www.atlas.com.pl.

The shelf life of the product (best before use) is 12 months from the production date shown on the packaging.

Important additional information

Not treated surfaces should be protected against soiling.

Low temperature and increased humidity extend the time of mortar setting. Avoid application in strong sunlight.

Tools should be cleaned with clean water, immediately after use. Difficult to remove residues of the bonded waterproofing are washed off with ATLAS CEMENT AWAY and ATLAS RESIN AWAY.

The information included in the Product Data Sheet constitutes basic guidelines concerning the use of the product and does not release from the obligation to conduct work according to the best construction practices and health and safety at work regulations. On the date of issue of this Product Data Sheet, all previous Product Data Sheets become invalid. The accompanying documents for the product are available at www.atlas.com.pl.

The content of the Product Data Sheet as well as the symbols and trade names used in it are the property of Atlas sp. z o. o. Their unauthorized use will be sanctioned.

Updated: 2022-01-28

Specific indications for the preparation of the substrate, depending on its type.

Substrate type	Information on substrate preparation
Freshly applied screed ATLAS SMS 15	required moisture content of the substrate 4.0 % CE - after approx. 8 hours for an undercoat thickness of 1-15 mm
Freshly applied screed ATLAS SMS 30	required moisture content of the substrate 4.0 % CE - after approx. 18 hours for an undercoat thickness of 3-5 mm - after approx. 2 days for a substrate thickness of 6-10 mm - after approx. 3 days for a substrate thickness of 11-20 mm - after approx. 4 days for an undercoat thickness of 21-30 mm
Freshly applied screed ATLAS SMS 80	Moisture content of the primer 4.0 - 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
Freshly applied screed ATLAS POSTAR 10	required moisture content of the substrate 4.0 % CE - 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
Freshly applied screed ATLAS POSTAR 20	required moisture content of the substrate 4.0 % CE - after approx. 1 day for a substrate 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
Freshly applied screed ATLAS POSTAR 60	required moisture content of the substrate 4.0 % CE - 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
Freshly applied screed ATLAS POSTAR 80	required moisture content of the substrate 4.0 % CE - 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
Other cement screeds	required moisture content of the substrate 4.0 % CE - seasoning minimum 28 days Prime with one of the emulsions: - ATLAS UNI-GRUNT - ATLAS UNI-GRUNT ULTRA
Screeds with floor heating	Prime with one of the emulsions: - ATLAS UNI-GRUNT - ATLAS UNI-GRUNT ULTRA The cladding must be suitably heated before gluing.
Terrazzo	Degrease the surface thoroughly and, in the case of pasted terrazzo, remove the top part or all of it and make a new primer.
Bricks or hollow bricks of calcium-silicate, ceramic or cellular concrete	Prime with one of the emulsions: - ATLAS UNI-GRUNT - ATLAS UNI-GRUNT ULTRA A levelling layer (plaster) is required. The execution of waterproofing directly on unplastered masonry is only possible if the dimensional tolerance of the substrate is adequate. In this case, it is necessary to make the wall into a full joint (or to complete the jointing) and to repair any cavities and irregularities using ready-made mortars.
Cement and cement-lime plasters made of ready-made ATLAS mortars	- minimum curing time of 3 days* per cm of thickness - optimum humidity < 4% by weight.
Other cement and cement-lime plasters	- minimum curing time of 7 days*. Prime with one of the emulsions: - ATLAS UNI-GRUNT - ATLAS UNI-GRUNT ULTRA
Substrates to be levelled with ATLAS ZW 330 mortar	Seasoning min. 5 h for each 5 mm of levelling layer thickness
OSB, chipboard and timber flooring - the layering should be designed and constructed to prevent deformation that could lead to damage to the cladding.	- check the type of boards used, OSB/3 and OSB/4 boards (according to PN-EN 300:2007) may be used on the floors, with a minimum thickness of 25 mm (22 mm in the case of installation on ATLAS M-System), and wall cladding min. 18 mm, - check the stability of the sheathing on the substructure, the panels must not buckle under operational loads, if necessary tighten an additional, stiffening layer of panels, - Matt down the surface using 40-60 grit sandpaper, - clean the surface of any dust that has formed,
Concrete substrates	- a minimum of 21 days seasoning time; - optimum humidity < 4% by weight.



	<ul style="list-style-type: none"> - absolutely clean from any shuttering oil residues and other substances that may impair adhesion. - Missing areas, chipping and other defects should be filled with ATLAS TEN-10 or ATLAS ZW 330 mortars.
Metal and steel surfaces	Cleaning and de-rusting required, priming with dedicated primer. Make a sprinkling of dry quartz sand onto the freshly applied primer, e.g. ATLAS EPO-S universal epoxy binder with quartz sprinkling.
Plastic surfaces	Cleaning, sanding required. An adhesion test must be carried out to confirm the applicability of the film on plastic substrates.

*) The times shown in the table are recommended for application conditions of approx. 20 °C and 50 % humidity.

