



ATLAS ZW 330

rapid-set levelling and repair mortar

- LEVELS → REPAIRS → FILLS
- for levelling walls and floors and for shaping slopes
- for quick repairs and filling of renders, screeds, walls
- high mechanical strength C25 F5
- tiles can be laid after 8 hours
- structural reinforcement with 3D fibres
- polymer enhanced formula

VERSATILITY  GEL TECHNOLOGY CONSISTENCY ADAPTED TO NEEDS	 3D FIBRE-REINFORCED	C25 F5 HIGH MECHANICAL STRENGTH
SPEED  FOOT TRAFFIC AFTER ONLY 5 h  TILING AFTER ONLY 8 h	 3-50 mm LAYER THICKNESS	 FOR INTERIOR/EXTERIOR, WALL/FLOOR

GEL TECHNOLOGY - VERSATILITY

Consistency adapted to your needs

Gel technology allows for easy adjustment of consistency (within the range of 14÷19% mixing water) from thick plastic repair mortar to semi-fluid, thin-layer levelling filler.

The optimal consistency can be selected within a very wide range depending on:

- the area of application of the product,
- the specifics of the required application,
- the contractor's preferences.

This translates directly into the comfort of application and speed of work, in particular:

- enables a wide range of applications - from repair work (e.g. filling screed defects or sloping substrates on balconies) to levelling render surfaces,
- allows for repairs, filling and levelling of vertical and horizontal surfaces,
- ensures high strength of C25 F5 repairs and their quick drying,
- allows for quick access to the substrates being worked on and their finishing.

FAST-ACTING MORTAR

LEVELS → REPAIRS → FILLS

Versatile application for the preparation and repair of wall and floor substrates, both indoors and outdoors.

LEVELS

For use as a levelling mortar for walls and floors - from thin-layer filling to floor screed. Ideal for levelling uneven surfaces, creating slopes (e.g. on balconies, terraces, in shower enclosures), preparing substrates for tiles, panels, render or levelling surfaces before installing ETICS systems. It is recommended for making floor screeds, including sloped layers in external applications (landings, driveways, etc.) and internal applications (e.g. garages, boiler rooms, etc.) in conditions of permanent moisture. It can also be used for levelling walls (internal and external render).

REPAIRS

Designed for local repairs of cement, concrete, reinforced concrete and masonry substrates. It enables effective reconstruction of corners, balcony edges, window reveals, stairs, columns and beams, even in areas exposed to heavy use. The mortar meets the requirements of PN-EN 1504-3 in class R2.

FILLS

It allows for filling deep cavities, grooves left after installations (walls and floors), installation passages through building partitions, as well as embedding point drains, linear drains and prefabricated elements, such as drainage channels, well rings and covers. It can be used to shape facets and corners.

Properties

ATLAS ZW 330 mortar is produced in the form of a dry mix of the highest quality cement binder, quartz fillers and refining additives.

It allows for very quick commencement of subsequent works – under normal conditions (T=23° C, R.H.=50%):

- walking on the substrate after approx. 5 hours,
- tile bonding after approx. 8 hours (with a mortar layer thickness of 5 mm),
- adhering tiles after approx. 12 hours (with a mortar layer thickness of 10 mm),
- laying panels or carpets after approx. 72 hours (with a layer thickness of 5 mm).

Adjustable consistency – a very wide range from thick plastic (14% mixing water addition) to semi-liquid (19% mixing water addition).

High mechanical strength:

- compressive strength min. 25 MPa,
- bending strength min. 5.0 MPa.

Reinforced with polypropylene fibres, which:

- reduce the formation of shrinkage cracks during the setting stage of the mortar,
- allow for thick-layer repairs and stable fillings on vertical surfaces without the mortar running down,
- reduce the occurrence of fine microcracks that may appear during use, bridging them in the mortar structure.

Wide range of layer thicknesses – from 3 to 50 mm in a single cycle.

The wide range of mortar consistency options, very wide range of applications and range of layer thicknesses, repairs and fillings allow for multifunctional use of the product in a wide spectrum of applications.

Intended use

ATLAS ZW 330 is intended for repairing, levelling and filling building substrates inside and outside buildings. It can be used on both walls and floors, with a layer thickness of 3 to 50 mm.

The range of applications includes, among others:

- filling cavities and levelling uneven surfaces,
- rebuilding and repairing corners of walls, columns, beams, stair edges, landings and platforms, balconies,
- filling grooves after removed or installed installations (in walls and floors), also in the area of point and linear drains and linear drains,
- full-surface levelling of walls - including multi-layer rendering with a layer thickness of up to 5 cm (single layer thickness up to 3 cm), with render class II or III,
- execution of reinforced repair layers strengthened with fibreglass mesh,
- repair and profiling of window reveals (e.g. when replacing joinery),
- filling and repairing existing cement floors, reprofiling their slopes,
- shaping of facets and corners,
- replenishing render coatings, levelling surfaces,
- shaping slopes in the area of linear drains, on balconies, terraces, in shower cubicles, installing drains,
- filling in walls at installation passages through building walls.
- base coat for thin-coat and decorative renders; suitable for embedding reinforcing mesh in render-only systems (over masonry substrates)

Execution of floor screeds bonded to the substrate.

Types of substrates repaired – cement and cement-lime plasters, concrete and reinforced concrete, aerated concrete, cement screeds, as well as unrendered brick and ceramic or silicate block walls.

Type of finishing layer – ceramic tile cladding, smooth finishes, thin-coat renders, floor panels, etc.

Technical data

Bulk density (dry mix)	approx. 1.6 kg/dm ³
Mixing ratio water / dry mix	0.14÷0.19 l / 1 kg 3.50÷4.75 l / 25 kg
Temperature of mortar preparation and substrate and ambient temperature during work	from +5 °C to +25 °C
Contact layer	ATLAS ADHER S
Minimum/maximum mortar thickness	3 mm / 50 mm
Maximum aggregate diameter	1.0 mm
Ready to use time	min. 3 hours
Tile bonding from the moment of mortar application*	after 8 hours with a layer thickness of 5 mm after 12 hours with a layer thickness of 10 mm
Panel installation*	after 72 hours with a layer thickness of 5 mm
Full load	after 3 days

*The times given in the table are recommended for application conditions at a temperature of approx. 23 °C and 50% humidity.

Technical requirements

ATLAS ZW 330 (2025) Declaration of performance No. 167/4/CPR EN 998-1:2016 EN 13813:2002 EN 1504-3:2005	
Intended use: - for external walls, ceilings and columns - for walls, ceilings, columns and partition walls	
Reaction to fire	A1
Water absorption	W _c 1
Water vapour permeability coefficient	μ ≤ 30
Adhesion	0.3 N/mm ² - FP:B
Intended use: EN 13813:2002 Cement-based floor underlayment for use inside buildings	
Reaction to fire (in case of exposure)	A1 _{fl}
Emission of corrosive substances	CT
Strength: - Compressive strength - Flexural strength	C25 F5
Intended use: In buildings and civil engineering works	
Compressive strength	Class R2
Chloride ion content	≤ 0.05%
Reaction to fire	A1

Method of use

Substrate preparation – application of mortar for substrate repair.

The substrate should be dry and load-bearing, i.e. sufficiently strong, cleaned of any layers that could weaken the adhesion of the repair mortar, especially dust, dirt, lime, oils, greases, wax, bituminous substances and paint residues. Loose elements and fragments of the substrate with poor strength should be removed mechanically, e.g. by chipping. Immediately before applying the actual layer, the substrate should be moistened with water to a matt-damp condition. If it is necessary to increase adhesion to the substrate, a contact layer should be applied using ATLAS ADHER S (description below).

Substrate preparation – use of mortar as a floor screed bonded to the substrate.

The substrate should be free of layers and elements that could weaken adhesion, especially dust, lime, oils, fats, bituminous substances, paints, weak and loose fragments of old screeds. Immediately before applying the actual layer of mortar, the substrate should be moistened with water to a matt-damp condition and a previously prepared contact layer should be applied.

The contact layer should be made with ATLAS ADHER S mortar. It has a liquid consistency and can be applied with a brush. It should be rubbed intensively into the previously moistened substrate, and then the proper layer of mortar should be applied using the "wet on wet" method. If the contact layer dries before the main layer of the screed is applied, it must be reapplied.

Preparation of mortar

Pour the contents of the bag into a container with the measured amount of water (proportions specified in the Technical Data) and mix with a low-speed mixer with a mortar mixer until a uniform consistency is obtained. The mixture is ready for use immediately after mixing and should be used within 3 hours.

Suggested application according to the mixing ratio of dry mix to water.

Lower mixing water 14%:

- filling grooves,
- installing linear/point drainage,
- creating a sloping layer,
- making facets.

Medium mixing water 16.5%:

- rendering,
- bricklaying,
- applying thick-layer screeds.

Upper mixing water 19%:

- thin-layer filling up to 5 mm.

Use of mortar as a repair compound

The mortar should be applied to a previously prepared and primed substrate using a trowel or a smooth steel trowel. A single layer of mortar no thicker than 50 mm can be applied at a time. 50 mm.

After initial setting, the applied layer of mortar can be smoothed with a felt or polystyrene trowel or smoothed with a steel trowel. When preparing the substrate for ceramic tile cladding, the mortar should be smoothed sharply.

Use of mortar as a floor screed

The screed should be separated from walls and other elements in the working area with an expansion joint. The size of the working areas should not exceed 36 m², and the side dimension should not be greater than 6 m.

Expansion joints should also be made in room thresholds and around load-bearing columns. Existing structural expansion joints in the substrate should be transferred to the underlayment layer.

The mortar should be spread with a steel trowel.

Drying and curing of the underlay

In order to ensure favourable conditions for mortar setting, the freshly finished surface should be sprinkled with water or covered with foil, as required. Proper curing increases the strength of the product but also prolongs the drying process. The drying time of the underlayment depends on the thickness of the layer and the temperature and humidity conditions in the environment.

Use of mortar as a base coat

1. Apply a splatter coat of ZW 330 using a trowel.
2. Spread the product evenly over the façade surface using a 10 or 12 mm notched trowel. Remove any excess.
3. Lay the Atlas 150/165 mesh from top to bottom. After tensioning, bed it into the freshly applied render using the notched side of the trowel. Level the surface by smoothing over the mesh with the flat side.
4. The second coat of render may be applied:
 - a) immediately, following steps 1 and 2, and leveled with the flat side of the trowel, or
 - b) the next day or later, using the same method as above.

Finishing works

Tiles can be laid on a repair layer made of ATLAS ZW 330 mortar, following the information provided in the TECHNICAL DATA table. Before starting the cladding work, it is recommended to prime the surface with one of the following emulsions:

- ATLAS GRUNT NKP,
- ATLAS UNI-GRUNT,
- ATLAS UNI-GRUNT ULTRA.

Consumption

On average, approximately 18 kg of dry mass is used per 1 m² for every 10 mm thickness.

Packaging

25 kg paper bags.

Safety information

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

The product's storage period (shelf life) is 12 months from the date of manufacture indicated on the packaging.

Important additional information

Protect the surface during and immediately after work from precipitation and excessive drying (if necessary, moisten it with water or cover it with foil).

Clean tools with clean water immediately after use. Difficult-to-remove residues of set mortar can be washed off with ATLAS SZOP.

The information contained in the Technical Data Sheets constitutes basic guidelines for the use of the product and does not exempt from the obligation to perform work in accordance with the rules of good building practice and health and safety regulations. With the publication of this technical data sheet, all previous ones become invalid. Documents accompanying the product are available at www.atlas.com.pl.

The content of the technical data sheet and the designations and trade names used therein are the property of Atlas sp. z o. o. Their unauthorised use will be sanctioned.

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