



## ATLAS ZW 330

### fast setting leveling mortar

- tiling just after 5 hours
- no shrinkage cracks (reinforced with polypropylene fibres)
- high mechanical strength



FROST- AND  
WATERPROOF



INDOORS AND  
OUTDOORS



EASY IN USE



### Properties

ATLAS ZW 330 is produced as a dry mix of high quality cement binder, quartz fillers and improvers.

**Enables quick start of successive operations** – in standard conditions tiling just after approx. 5 hours (for layers 5 mm thick).

**Reduces the consumption of adhesive mortars, plasters, screeds and floors.**

**Plastic consistency** – working parameters ensure easy application and filling gaps in the repaired surface.

#### High mechanical strength:

- compressive strength min. 20 MPa
- flexural strength min. 4,0 MPa.

#### Reinforced with polypropylene fibres which:

- reduce cracking resulting from shrinkage during the mortar setting,
- enable application of thicker mortar layers on vertical surfaces, with no slip effect,
- ensure uniform water distribution during drying.

#### No shrinkage cracks.

**Wide range of layer thickness** – from 3 up to 30 mm in a single operation – one may extend the layer thickness from 31 mm up to 60 mm after mixing the mortar with quartz sand (grain size up to 2 mm) in 1:4 weight ratio (quartz sand: dry mortar) - recommended when filling gaps and leveling horizontal surfaces.

### Use

**Substrates repairs indoors and outdoors** – enables filling gaps and cavities as well as leveling other substrate irregularities.

**Execution of bonded screeds.**

**Types of repaired surfaces** – cement and cement-lime plasters, concrete, aerated concrete, cement jointless floors, rough walls made of bricks and ceramic or silicate hollow blocks.

**Type of finishing coats** – ceramic cladding, finishing coats, thin-coat plasters/ renders, floor panels, etc.



## Technical data

Bulk density (of dry mix)	approx. 1.6 kg/dm <sup>3</sup>
Mixing ratio (water/dry mix)	0.17÷0.22 l / 1 kg 4.25÷5.5 l / 25 kg
Contact coat	10 kg of dry mix ZW330 + 1,0 l of water + 2,0 kg of f ATLAS ELASTIC EMULSION or ATLAS ADHER
Min./max. mortar thickness	3 mm / 30 mm For wider gaps (from 31 mm up to 60 mm) quartz sand of grain size up to 2.0 mm can be added in 1:4 ratio (quartz sand : dry mortar)
Max. aggregate size	1.0 mm
Pot life	approx. 2 hours
Open time	min. 20 minutes
Fixing the tiles from the moment of applying the mortar	after 5 hours /5 mm of layer thickness  after 10 hours /10 mm of layer thickness  after 20 hours /20 mm of layer thickness  after 48 hours/layer thickness above 20 mm
Panels installation	after 48 hours
Full load	after 3 days

The time shown in the table is recommended for the application in the temperature 23°C and humidity 50% (approx.).

## Technical requirements

ATLAS ZW 330 conforms the standards:

- PN-EN 998-1 - factory made plastering mortar of specified properties, general-purpose (GP), for manual application, for indoor and outdoor use, on walls, ceilings, posts and partition walls
- PN-EN 13813 - Cement-based screed CT-C20-F4 for indoor use.

ATLAS ZW 330 (2019) Declaration of Performance No nr 167/2/CPR EN 998-1:2016 EN 13813:2002	
Intended use: - for indoor and outdoor use - on walls, ceilings, posts and partition walls	
Reaction to fire	A1
Water absorption	W <sub>c</sub> 1
Water vapour permeability coefficient	μ ≤ 30
Bonding	0,3 N/mm <sup>2</sup> - FP:B
Intended use: EN 13813:2002 Cement-based screed for indoor use	
Reaction to fire (for direct exposure)	A1 <sub>fl</sub>
Release of corrosive substances	CT
Strength: - Compressive strength - Flexural strength	C20 F4

The product has been given the ITB Technical Approval No. ITB-KOT-2019/1202 issue 1

Fast setting leveling mortar ATLAS ZW 330 ATLAS ZW 330 (2020) ITB-KOT-2019/1202 issue 1 Domestic Declaration of Conformity No. 167/1	
Compression strength: - mortar without sand - mortar with sand	≥ 22 MPa ≥ 20 MPa
Bending strength: - mortar without sand - mortar with sand	≥ 4 MPa ≥ 4 MPa
Adhesion to concrete substrate with a contact layer: - mortar without sand - mortar with sand	≥ 1.0 MPa ≥ 0.6 MPa
Adhesion to primed autoclaved aerated concrete substrate: - mortar without sand - mortar with sand	≥ 0.4 MPa ≥ 0.4 MPa
Adhesion to primed cement mortar substrate: - mortar without sand - mortar with sand	≥ 1.0 MPa ≥ 0.6 MPa
Frost resistance determined by a decrease in compression strength	≤ 10 %
Shrinkage: - after 3 days - after 7 days - after 28 days	≤ 0.1 mm/m ≤ 0.6 mm/m ≤ 0.7 mm/m
Abrasion resistance acc. to the Böhme abrasion test method cm <sup>3</sup> /50 cm <sup>2</sup>	≤ 30



## Substrate preparation

### **Substrate preparation - for substrate repairs**

The substrate should be dry and sound, i.e. it should be strong enough and free from layers, which would impair the mortar bonding, in particular dust, dirt, lime, oil, grease, wax, bituminous substances and paints residues. Remove loose pieces and weak substrate elements mechanically, e.g. hack them off. Just before the application of the main mortar layer, the substrate should be moistened with water up to the matt-wet state. If improvement of bonding to the substrate is required, one should apply the contact coat (description below).

### **Substrate preparation - for bonded screeds**

The substrate should be free from layers, which would impair the mortar bonding, in particular dust, dirt, lime, oil, grease, wax, bituminous substances and paints residues, poor or loosening pieces of old screeds. Just before the application of the main mortar layer, the substrate should be moistened with water up to the matt-wet state and the contact coat applied (description below).

### **Contact coat preparation**

The contact coat can be prepared with one of the following methods:

- with ATLAS ZW 330 modified with ATLAS ELASTIC EMULSION in ratio: 10 kg of ATLAS ZW 330 + 1 l of water + 2 kg of ATLAS ELASTIC EMULSION,
- with ATLAS ADHER mortar.

The contact coat has liquid consistency and can be applied with a brush. Rub it well into previously moistened substrate, then apply the main mortar layer with "wet on wet" method. When the contact coat dries, apply another one before the application of the main mortar layer

### **Mortar preparation**

Pour the mortar from the bag into a clean container with the suitable amount of water (see Technical Data for ratio) and mix using a mixer with a drill until homogenous. The mortar is ready to use directly after mixing and should be used up within approx. 2 hours.

### **Mortar use - repair mass**

Apply the mortar onto previously prepared and primed substrate with a trowel or a smooth steel float. **The single mortar layer thickness should not exceed 30 mm. The layer thickness can be increased up to 60 mm after mixing the mortar with quartz sand (grain size up to 2 mm) in 1:4 weight ratio (quartz sand : dry mortar).** After initial setting, the applied mortar layer can be floated with a felt or a polystyrene float or smoothed with a steel float. When preparing the substrate for tiling, float the mortar rough.

### **Mortar use - screed**

The screed should be separated from walls and other elements within the application area with ATLAS EXPANSION JOINT PROFILES. The size of application area should not exceed 36 m<sup>2</sup> with sides length up to 6 m.

The expansions joints should also be executed at room thresholds and around load-bearing posts. The existing structural expansion joints should be transferred onto the screed layer. Spread the mortar with a steel float.

### **Screed drying and maintenance**

In order to ensure favourable conditions for mortar setting, depending on needs, sprinkle the freshly applied surface with water or cover it with foil. Proper maintenance leads to increase of strength of product but also extends the time of drying. The time of drying of screed depends on the layer thickness and ambient thermal and humidity conditions.

### **Finishing works**

Follow the guidelines listed in the Technical Data section when fixing the tiles on the repair layer made of ATLAS ZW 330. Prime the surface with ATLAS UNI-GRUNT or ATLAS UNI-GRUNT ULTRA before tiling.

## Consumption

The average consumption is approx. 15 kg of dry mix/ 1 m<sup>2</sup> / 10 mm of layer thickness.

## Packaging

Paper bags 25 kg.

## Safety information

Safety information is provided on the product packaging and in the Safety Data Sheet available at [www.atlas.com.pl](http://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](http://www.atlas.com.pl).

Shelf life is 12 months from the production date shown on the packaging.



## **Important additional information**

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The mortar parameters listed in the Technical data and technical requirements sections refer to unmodified mortar. The addition of quartz sand (for use with layers from 31 up to 60 mm thick) reduces the mortar strength and extends the time of setting.

During application and directly after, the surface should be protected against precipitation and excessive drying (moist with water or cover with foil, if required).

Tools must be cleaned with clean water directly after use. Difficult to remove residues of the set mortar can be removed with the ATLAS SZOP agent.

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](http://www.atlas.com.pl).

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**Updated on: 2022-05-23**

