



ATLAS TR

- effectively accumulates salts
- accelerates the drying out of masonry
- highly diffusive, hydrophobic, contains trass
- complies with instruction sheet 2-09-04
- for manual and mechanical application



Properties

ATLAS TR is a factory-prepared dry mix manufactured from the highest quality mineral binders, additives and modifiers, as well as trass and quartz fillers.

The appropriate pore structure provides excellent vapour permeability, allowing moisture to evaporate freely and the substrate to dry quickly.

Very high degree of porosity - the render has a high capacity to store crystallising salts.

Contains lightweight fillers.

Resistance to water-soluble salts.

Contains hydrophobic additives that reduce the surface absorbability of the render - the surface is protected against precipitation and water penetration from outside.

It works perfectly with historic mortars used to erect buildings undergoing restoration - thanks to a specially selected formulation.

Suitable for manual or machine application.

Meets the requirements of Instruction 2-9-04.

Purpose

ATLAS TR designed for application of renovation coats of thickness 10 to 40 mm thick on humid walls, inside and outside buildings.

It is recommended for use in historic buildings and other structures for the restoration of damp and saline walls.

Reduces corrosive phenomena, achieves dry building wall surfaces.

ATLAS TR can be applied:

- On substrates with a low to medium degree of salinity, in a system with ATLAS TRO preparatory spray coat,
- On highly saline substrates in a system with ATLAS TRO scratch coat and ATLAS TRP base render coat.

Technical data

Density of freshly prepared, properly aerated mortar	1470 kg/m ³
Mixing ratio water / dry mix	4.00-4.50 l / 25 kg
Temperature of mortar preparation, substrate and ambient during the work	from + 5 °C to + 25 °C
Pot life	approx. 2 hours
Minimum layer thickness	10 mm
Maximum layer thickness	25 mm
Maximum render thickness (2 coats)	40 mm
Water penetration	≤ 5 mm
Porosity	> 40 %
Air pore content of fresh mortar	> 25 %

Technical requirements

ATLAS TR complies with the requirements of EN 998-1:2016 - Renovation render mortar, with specified properties, manufactured in the factory (R), for manual or mechanical application, for interior and exterior use on walls, ceilings, columns and partition walls.

ATLAS TR (2020) Declaration of Performance No. 242/CPR EN 998-1:2016	
Intended use: - for external walls, ceilings and columns - for walls, ceilings, columns and partitions.	
Reaction to fire	A1
Water absorption	≥ 0.3 kg/m² after 24 h
Water vapour permeability	μ ≤15
Adhesion	0.3 N/mm² - FP:B

Layer arrangement

Before working on the application of the restoration render system, it is recommended to determine the degree of salinity of the substrate, which determines the layout and thickness of the individual layers - see table.

ATLAS RENOVATION RENDER SYSTEM		
Degree of salinity	Recommended layering	Layer thickness [mm]
low	ATLAS TRO - preparatory spray render	≤ 5
	ATLAS TR - renovation render	≥ 20
medium	ATLAS TRO - preparatory spray render	≤ 5
	ATLAS TR - renovation render (layer I)	10 ÷ 20
	ATLAS TR - renovation render (layer II)	10 ÷ 20
high	ATLAS TRO - preparatory spray render	≤ 5
	ATLAS TRP – base render coat	≥ 10
	ATLAS TR - renovation render	≥ 15

Substrate preparation

The total maximum thickness of the renovation render applied in a maximum of 2 coats can be 40 mm.

The surface to which the restoration render is to be applied must be rough, porous and provide good adhesion. Moist and salty render must be removed to a height of approximately 80 cm above the line of salinity and/or dampness. Remove mortar from joints to a depth of up to 20 mm. The exposed wall surface should then be cleaned of dust, salt efflorescence, mortar residues and poorly adhered masonry fragments. Remove demolition materials outside the construction area and dispose of them. Refill the excavated joints with ATLAS TRP base render coat.

Moisten the dry substrate with water and apply a coat of ATLAS TRO preparatory spray render. The scratch coat should be applied in an openwork layer about 5 mm thick, covering up to 50% of the substrate surface.

Rendering

Render preparation

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. Allow the mixed mortar to stand for 5 minutes and mix again. The mortar thus prepared should be used within approx. 2 hours. The mortar can also be prepared with rendering units.

Application of render

First of all, deep cavities should be filled with ATLAS TRP base render coat (after approx. 24 hours after ATLAS TRO preparatory spray render). Once the mortar has set, you can proceed with ATLAS TR renovation render. Apply the render in layers minimum 10 mm thick. The applied layer of render should have the same thickness over the entire surface. Maximum thickness of one layer: 25 mm. Remove excess material with a patch. The render should not be trowelled; use wooden or polystyrene floats to level the surface. Protect the fresh render from drying out too quickly - ensure humid conditions for a minimum of 24 hours. It is assumed that the rate of drying of renovation render is 1 mm per day under normal conditions (temperature of 20 °C and 50% humidity)

Finishing work

Depending on the desired texture, the render surface can be finished with ATLAS TSG coarse renovation filler, ATLAS TS fine renovation filler (after min. 5-7 days) and ATLAS SALTA S silicate paint or ATLAS SALTA N silicone paint (after min. 2-3 weeks).

Consumption

On average, approximately 12 kg of mortar is used at² 1 m with a layer thickness of 10 mm.

Packaging

25 kg paper 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 (best before use) is 12 months from the production date on the packaging.

Important additional information

Caution. Materials used for surface finishing must not impair the vapour permeability of the renovation render. Ensure adequate ventilation of the rooms during drying of the interior render. Protect external renders from drying too quickly.

Clean the tools with clean water, immediately after use. Difficult to remove residues of the set mortar are washed off with ATLAS CEMENT AWAY.

The information contained in the Technical Data Sheet is a basic guideline for the use of the product and does not exempt from the obligation to carry out the work in accordance with the rules of the art and safety regulations. With the issue of this Technical Data Sheet, all previous ones are no longer valid. Documents accompanying the product are available at www.atlas.com.pl.

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