ATLAS ACRYLIC RENDER

- stain-resistant
- resistant to mechanical damage
- resistant to algae growth
- hydrophobic

Properties

ATLAS ACRILIC RENDER is a microfibre-reinforced mixture of new generation acrylic resin, dolomite fillers, modifiers and selected pigments. The modern polymer binder allows to significantly improve the previous limitations of acrylic plasters: low vapour permeability and susceptibility to dirt.

It is not susceptible to algae growth - due to its high degree of water repellency, the structural integrity of the coating and its very high content of encapsulated coating-active substances.

Low surface absorbency - the tight bulk stack of textured aggregate and fine fillers and the addition of water repellents effectively reduces the structural absorbency of the render, thus reducing the risk of dirt penetration.

Colour fastness - is ensured through the use of hybrid mixtures of inorganic and organic pigments with increased resistance to external influences and special reflective additives.

Resistance to micro-scratching - the increased resistance, achieved through the addition of fibres and high polymer dispersion content, allows compensation for stresses arising during the setting and drying stages of the coating and alternate heating and cooling of the surface during use.

Machine application - using recommended plastering units.

The exceptional care for the environment during the production of ATLAS ACRYLIC RENDER in compliance with the requirements of sustainable development is confirmed by the Environmental Declaration of III type.

Colours - 400 colours according to SAH Paints and Plasters Colour Chart **ATLAS colouring system** - selection of any individual colour according to the customer's instructions
Texture - spotted (sheepskin)
Textured aggregate - up to 1.5 mm

Purpose

ATLAS ACRYLIC RENDER is intended for the application of decorative thin-layer and protective plasters on the outside of existing buildings, newly constructed buildings and indoors:
- in complex external thermal insulation composite systems (ETICS) for buildings using polystyrene (EPS) panels,
- On even, properly prepared mineral substrates (e.g.: concrete, traditional cement and cement-lime plaster).

PLACE OF USE	
facade in an insulation system with polystyrene foam	+
single-layer wall facade	+
wall inside the building	+

SUBSTRATE TYPE	
reinforced layers of insulation systems indicated	+
concrete	+
traditional, cement and cement-lime plasters made on walls made of bricks, blocks ceramic, cellular or calcium silicate blocks and hollow bricks	+
Gypsum plaster, plasterboard (inside the building)	+

TYPES OF FACILITIES	
housing construction	+
public, educational, office, healthcare, sports facilities	+
commercial and service construction	+
industrial construction	recommended ATLAS SILICONE RENDER
industrial warehouses	recommended ATLAS SILICONE RENDER
traffic construction	+
farm and livestock buildings	recommended ATLAS SILICONE RENDER
historic buildings	recommended ATLAS SILICONE RENDER
passive construction	+
energy-efficient construction	+

LOCATION	
urban and urbanised areas	+
industrial, investment and economic zones	recommended ATLAS SILICONE-RENDER
rural and agricultural areas	recommended ATLAS SILICONE RENDER
Wetlands and humid areas, surroundings of water bodies	recommended ATLAS SILICONE RENDER
close proximity to tree stands and green areas	recommended ATLAS SILICONE RENDER
shaded areas	recommended ATLAS SILICONE RENDER

Technical data

Density of the finished product	approx. 1.9 g/cm³
Diffusion resistance	$0.14 \leq S_d < 1.4$ m
pH	8
Resistant to algal growth in accordance with EN-15458 (after washing in water)	yes
Temperature of the compound preparation and of the substrate and surroundings before, during and after the setting period	from +5 to +30 °C
Relative air humidity during application and setting	< 80%
Use at reduced temperatures (above 0°C) and increased humidity (up to approx. 80%)	after addition of the agent ATLAS ESKIMO
Drying time	approx. 15 minutes*
Drying time of the plaster	approx. 24 hours*

*) - applies to T=20° C, relative humidity 60%

Technical requirements

ATLAS ACRYLIC RENDER meets the requirements of PN-EN 15824:2017-07 - thin layer acrylic plaster, water dilutable for use on external and internal walls, columns and partition walls.

ATLAS ACRYLIC RENDER (2020) Declaration of performance No. 137/3/CPR EN 15824:2017	
Intended use: - for external walls, ceilings and columns. - for internal walls, ceilings, columns and partitions	
Water vapour permeability	V_2
Water absorption	W_2
Adhesion	0.35 MPa
Reaction to fire	A2-s1, d0

ATLAS ACRYLIC RENDER is a component of product sets for thermal insulation systems :

Name of the system	Number of National Technical Assessment
ATLAS ETICS	ITB-KOT-2020/1616 Issue 1
ATLAS ETICS PLUS	ITB-KOT-2018/0584 Issue 1
ATLAS RENOTER	

ATLAS TYNK AKRYLOWY is a component of a complex thermal insulation system with plaster coatings :

Name of the system	European Technical Assessment Number
ATLAS	ETA-06/0081
ATLAS GRAWIS	ETA-16/0933

Plastering

Substrate preparation

The substrate should be:

stable - rigid, seasoned and primed,

dry,

even - irregularities and defects should be filled in by using e.g. ATLAS ZW 330 or ATLAS PLASTERING MORTAR; before repairing, the substrate should be primed with ATLAS UNI-GRUNT or ATLAS UNI-GRUNT ULTRA,

cleaned - from layers that may impair adhesion of plaster, especially from dust, dirt, lime, oil, grease, wax, oil and emulsion paint remains. If there is biological infestation on the substrate (mould decay fungi, algae, etc.) they need to be removed using ATLAS MYKOS NR 1 or MYKOS PLUS.

Specific requirements for substrates

Substrate type	Seasoning requirements	Method of priming
reinforced layer in ETICS systems, made of ATLAS STOPTER K-50 or ATLAS HOTER U2-B mortars	min. 3 days*	does not require a plaster base
reinforced layer in ETICS systems, made with other ATLAS adhesive mortars	min. 3 days*	ATLAS CERPLAST
new cement plasters made from ATLAS ready-mixed plaster mortars, traditional cement and cement-lime plasters	min. 7 days/1 cm thickness*, moisture content < 4%	
concrete substrates	min. 28 days*, moisture content < 4%	
coatings with good adhesion to the substrate in interior applications	no requirements	
gypsum substrates	moisture content < 2%	Pre-priming with ATLAS UNI-GRUNT or ATLAS UNI-GRUNT ULTRA appropriate ATLAS CERPLAST
gypsum plasterboards and fibre cement boards, firmly fixed in accordance with the manufacturers' recommendations and the rules of the trade		

*) - Note: applies to bonding conditions: T= +20° C, 50 % humidity

Preparation of the plastering mix

The plaster is supplied as a ready-to-use mass. It must not be combined with other materials, diluted or thickened. Immediately before use, the mass should be stirred to even out the consistency.

Application of the mass

Apply the mix with a smooth stainless steel trowel in an even layer the thickness of the aggregate. Remove excess material back into the bucket and stir. The plaster can be applied by machine - the use of an aggregate machine is recommended:

Device	Recommended nozzle	Operating pressure	Posow
Wagner PC 830/ Wagner C330	6 mm	1.8 bar	1,5/10

Device	Recom-mended nozzle	Pressure di-rected at the nozzle	Pressure directed at the tank	Throttle opening on the firing pin
Graco TexSpray Fast Finish	6 mm - flat	Medium feed	Orange zone - medium	Maxi-mum
	6 mm - ro-und	Between mini-mum and me-dium feeds	Green zone - maxi-mum	Maxi-mum

Device	Recommended single nozzle	Recommended double nozzles	Adjusted feed rate on the unit
Graco TexSpray RTX 5500 PX	6 mm - flat	8 mm - round 6 mm - flat	Medium administra-tion - 2/6

The operating pressures given are indicative for standard hose lengths. For longer hoses, the pressure should be determined directly before application on site.
Before applying the plaster, a small amount of ATLAS CERPLAST compound should be passed through the hose of the unit. The effect of this action is to wet the hose and avoid clogging.

Invoicing

The freshly hand-applied render should be textured with a plastic trowel by trowelling in a circular motion. Machine-applied render should not be textured.
The texture of hand-applied and machine-applied render differs from each other, which may result in slight colour differences depending on the degree of surface development. For this reason, it is not permissible to combine different application technologies on the same object.

Plaster restoration

Refreshing the façade after many years of use can be done with the following façade paints: acrylic ATLAS SALTA E and silicone ATLAS SALTA or ATLAS SALTA N.

Consumption

Average consumption when applied by hand depends on the evenness of the substrate: < 2.5 kg per 1 m^2 .
The average consumption of plaster when applied mechanically will be lower than that given for manual application. This is due, among other things, to the different structure of the render obtained (less aggregate compaction).
The exact value of wear in both cases can be determined from a test carried out on the substrate in question.

Packaging

Plastic buckets 25 kg

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) is 12 months from the date of manufacture on the packaging.

Important additional information

It is necessary to determine experimentally (for a given type of substrate and forecasted weather) the maximum area possible to be executed in one technological cycle (stretching and blending).

The material should be applied using the wet-on-wet method, not allowing the smeared batch to dry before the next batch is applied. Otherwise the joint will be visible. Technological breaks should be planned in advance, e.g.: in corners and folds of the building, under the corners and folds of the building, under drain pipes, at the junction of colours, etc.

The plastered surface should be protected, both during the work and during the plaster drying period, from direct sunlight, wind and precipitation.

The drying time of the render, depending on the substrate, temperature and relative air humidity, is approximately 24 hours. In conditions of increased humidity and a temperature of approx. +5 °C, the setting time of the render may be prolonged.

In order to avoid possible differences in colour shades, plaster of the same date of manufacture should be applied to one surface.

Clean the tools with clean water immediately after use. Use ATLAS RESIN AWAY to remove difficult to remove residues of the set compound.

Dark, intense colours of the render (HBW < 20) are recommended for use on limited areas of the façade (architectural details) due to increased absorption of solar radiation.

The use of the product on horizontal surfaces exposed to permanent direct contact with water and snow, on surfaces exposed to dampness due to capillary rise of moisture, is excluded.

The information contained in this Technical Data Sheet is a basic guideline for the use of the product and does not relieve the user of 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.

Update date: 2022-03-14