



ATLAS SILICONE HYBRID RENDER

thin-coat acrylic-silicone render

- vapour-permeable
- very low water absorption
- very high dirt resistance
- high adhesion to the substrate



Properties

A modern thin-coat render, developed on the basis of an innovative combination of two types of binders - acrylic and silicone resin.

Characterised by the lowest surface absorbency of all renders, it perfectly protects the substrate against water.

Thanks to the addition of silicone resin, it has significantly higher resistance to dirt than standard acrylic renders.

It allows for a dense and very distinctive texture with a grain size of up to 1.5 mm.

The render is also recommended for mechanical application using plastering unit.

BIO PROTECTION - creates unfavourable conditions for the growth of fungi and moulds due to its low absorbency and pH environment.

FLEXIBILITY AND DURABILITY - the formulation for increased flexibility and impact resistance means that the render perfectly compensates for the stresses in the event of impact, maintains cohesion and does not splinter.

COLOR DURABILITY - advanced technology ensures colour durability thanks to the use of modern pigments, a computer-controlled pigment dosing system and a production process under constant control - the render retains its original colours for longer and is more resistant to fading and UV radiation.

ENVIRONMENTAL-FRIENDLY - the render formula has been designed with sustainability in mind: the final product contains reduced content of volatile organic substances and natural fillers only.

RESISTANCE TO CRACKING - increased resistance achieved through the presence of dispersed microfibres acting as effective reinforcement throughout the entire volume of the render - it is protected against possible cracking resulting from stress and alternate heating and cooling of the surface.

400 Colours - according to SAH Paints and Renders Colour Chart

Texture - spotted

Aggregate thickness - up to 1.5 mm

Purpose

Thin-coat render for making finishing layers of façades.

For indoor and outdoor use.

Recommended as a facade layer when insulating buildings with polystyrene or XPS boards.

For facades that are particularly exposed to dirt and harsh conditions of use - ideal for buildings located near busy roads, in towns and cities and in areas of high pollution and greenery.

Types of buildings to be rendered - single and multi-family dwellings as well as industrial and public buildings.

Substrate types - concrete, traditional plasters on brick walls, ceramic, cellular or silicate blocks and hollow bricks, CP plasterboard, layers reinforced with polystyrene or XPS boards during thermal insulation of buildings.

Technical data

ATLAS SILICONE HYBRID RENDER is manufactured on the basis of an water dispersion of synthetic resins and dolomite aggregate.

Density of the finished product	approx. 1.9 g/cm ³
Comparative diffusion resistance	$0.14 \leq S_d < 1.4$ m
Temperature of the compound preparation and of the substrate and surroundings before, during and after the setting period	from +5 to +30 °C
Water vapour permeability rate	$15 < V_2 \leq 150$

Technical requirements

ATLAS SILICONE HYBRID RENDER meets the requirements of EN 15824:2010. Declaration of Performance No. 124/CPR.

ATLAS SILICONE HYBRID RENDER (2020) Declaration of performance No. 124/CPR EN 15824:2009	
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 External Thermal Insulation Composite Systems:

Name of the system	National Technical Assessment No.:
ATLAS ETICS	AT-15-9090/2016
ATLAS RENOTER	AT-15-8477/2016

Name of the system	European Technical Assessment No.:
ATLAS	ETA-06/0081

Render application

Substrate preparation

The substrate should be:

- **stable** - sufficiently rigid,
- **suitably long seasoned** - the seasoning time of the substrates is assumed to be:
 - for new cement plasters from ready-mixed mortars e.g. ATLAS min. 1 week for each cm of thickness
 - for concrete walls - at least 28 days,
- **dry**,
- **even** - irregularities and defects should be filled in with e.g. ATLAS ZW 330, ATLAS PLASTERING MIX or adhesives for making the reinforcement layer in insulation systems. Before repairing, the substrate should be primed with ATLAS UNI-GRUNT,
- **cleaned** - from layers that may impair adhesion of the render, particularly from dust, dirt, lime, oil, grease, wax, oil and emulsion paint residues. If the substrate is covered with biological corrosion, ATLAS MYKOS PLUS should be used to remove it,
- **primed** - with ATLAS CERPLAST.

Preparation of the rendering mass

The render is supplied as a ready-to-use mass. It must not be combined with other materials, diluted or thickened. The mix must be stirred to an even consistency just before use.

Application of the rendering mass

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

- WAGNER PC 830e with 6 mm nozzle, operating pressure 1.5 bar,
- MAI 2MULTIPUMP with 6 mm nozzle, working pressure 1 bar,
- GRACO Textspray RTX 1500, with a 6 mm diameter nozzle.

Texturing

The freshly hand-applied render should be textured with a plastic float, trowelled in a circular motion. Machine-applied render should not be textured.

Consumption

Average consumption when applied manually depends on the evenness of the substrate: < 2.5 kg per 1 m².

The average consumption of render 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 specific substrate.

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 (spreading and floating).

The material should be applied using the wet-on-wet method, not allowing the floated area 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 rendered surface should be protected, both during the work progress and 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, render of the same date of manufacture should be applied to one surface.

Clean the tools with clean water immediately after use. Use ATLAS SZOP 2000 agent to clean off 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.

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