



# ATLAS SOLARIS

## hand-applied gypsum plaster

- crack-resistant
- high performance
- single layer
- ensures a favourable microclimate
- optimum processing time (120 minutes)



### Properties

ATLAS SOLARIS is produced as a dry mixture based on synthetic gypsum and mineral fillers and modifying additives.

**One-coat plaster** - economical, easy and quick to make, no additional finishing work required, an even and very smooth surface is obtained immediately.

**Wide range of application** - plaster thickness as low as 8 mm, maximum plaster thickness on ceilings 15 mm and on walls 30 mm.

**Optimum open time of 120±15 min** - allows for comfortable application and finishing of the plaster surface.

**High performance** - far superior to the use of traditional cement or cement-lime plasters.

**Resistant cracking caused by shrinkage during setting and drying.**

**Ensures favourable room microclimate**- positively influencing the health and well-being of users.

**Adapted for manual application** – pot life adapted to manual gypsum plastering technology.

### Purpose

**One-coat plaster** - indoors, in rooms with normal air humidity, also in kitchens and bathrooms; recommended both for walls and ceilings.

**Renovation and repair work** - working on reveals when installing or replacing windows, doors and window sills, as well as filling larger cavities (up to 3 cm deep) and filling furrows on walls and ceilings.

**Types of substrates to be plastered** - ceilings and walls made of bricks, blocks, hollow bricks and other such ceramic or silicate materials; surfaces made of concrete and cellular concrete.

**Types of finish coats** - gypsum plastering, ceramic cladding, paint coatings, wallpaper.

### Technical data

Bulk density (dry mix)	approx. 800 kg/m <sup>3</sup>
Mixing ratio water / dry mix	approx. 0.64 l / 1 kg approx. 16 l / 25 kg
Min. / max. plaster thickness on walls Min. / max. plaster thickness on ceilings	8 mm / 30 mm 8 mm / 15 mm
Adhesion	≥ 0.3 N/mm <sup>2</sup>
Temperature of the compound preparation and of the substrate and surroundings during the work	+5°C to +25°C
Room humidity during the work	up to 70%
Processing time	120±15 minutes
Pot life	approx. 30 minutes

## Technical requirements

ATLAS SOLARIS meets the requirements of EN 13279-1:2009 - Gypsum plaster B1/20/2 for plastering walls and ceilings inside buildings - excluding walls, ceilings and claddings intended to protect structures against fire and/or in fire compartments in buildings.

ATLAS SOLARIS (2020) Declaration of performance No. A25/1/CPR EN 13279-1:2008	
Intended use: General construction	
Reaction to fire (on direct exposure)	A1

## Plastering

### Substrate preparation

The substrate should be:

#### stable

**seasoned to air-dry condition** - it is assumed that the seasoning time for concrete substrates is at least 28 days (under normal conditions, i.e. about 20 °C and 55 % humidity - under other conditions the drying time may be longer),

**cleaned** - from layers that could weaken the adhesion of the plaster, especially from dust, dirt, lime, oil, grease, wax, paint residues and release agents,

**primed with a priming emulsion** (if the substrate is excessively absorbent):

- ATLAS GRUNT NKP (ready to use - without dilution),
- ATLAS UNI-GRUNT or ATLAS UNI-GRUNT COLOUR,
- ATLAS PRIMER,
- ATLAS UNI-GRUNT ULTRA,

**covered with a bonding layer** (when the substrate has low absorption or a smooth surface, e.g. concrete walls and ceilings)

- ATLAS GRUNTO-PLAST,
- ATLAS ULTRAGRUNT.

All steel components that may come into contact with plaster should be protected against corrosion.

### Plaster preparation

Pour the material from the bag into a container with water (the proportions are given in the Technical Data), leave for a few minutes until the gypsum is fully saturated with water, and then mix manually or mechanically (with a slow-speed mixer with a gypsum mixer) until a uniform lump-free mass is obtained. Use the mortar within approximately 30 minutes of preparation.

### Plaster application

The plaster should be executed as a single layer. Achieving the specified plaster thickness, controlling the mortar consumption and guiding the perfect wall plane is possible by using guiding aluminium plaster strips. The edges of window and door openings and the corners of walls may be additionally strengthened by installing corner beads (aluminium or plastic). The mortar is applied with a trowel or float, starting from the ceiling. On ceilings, the plaster is applied in strips from the window into the room, with a layer thickness of 8 to 15 mm. On the walls, the mortar is applied in strips from the floor to the ceiling with a layer thickness of 8 to 30 mm. The applied mortar is initially levelled with an H-shaped lath and any defects are filled in as necessary. Then, after the mortar has partially hardened, the plaster plane should be brought out with a trapezoidal batten. The next step, carried out after the plaster has sufficiently hardened, is to mist it with water and rub it with a sponge float in order to draw the milk onto the surface. In the final setting stage, after the milk has characteristically matted, it should be spread evenly over the entire surface with a long putty (pen). Caution: In areas where the bonding of ceramic tiles is planned, the plaster should be left without trowelling.

### Plaster care

Fresh gypsum plaster should be protected from direct sunlight and draughts during the first 24 hours after application, then intensive ventilation of the rooms is recommended. The drying time for 15 mm thick plaster, in a properly ventilated room and at temperatures above 15 °C, is about 14 days.

### Finishing work

The surface of the plaster must be sufficiently dry before commencing finishing work. Use one of the emulsions to prime the plaster for ATLAS RAPID, GIPSAR GO! or ATLAS GTA smoothing:

- ATLAS GRUNT NKP (ready to use - without dilution),
- ATLAS UNI-GRUNT,
- ATLAS UNI-GRUNT COLOUR,
- ATLAS UNI-GRUNT ULTRA.
- ATLAS PRIMER.

## Consumption

On average, approx. 8.5 kg of plaster / 1 m<sup>2</sup> / 1 cm thick layer is used.

## Packaging

25 kg paper bags.

## **Safety information**

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

## **Storage and transport**

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Information on storage and transport is given on the product packaging and in the Safety Data Sheet, available at [www.atlas.com.pl](http://www.atlas.com.pl).

Shelf life (shelf life) of the product is 6 months from the production date on the packaging.

## **Important additional information**

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The mass should be prepared in clean containers (residual bound gypsum shortens the setting time of fresh gypsum mass).

The plaster must not be applied to substrates exposed to direct moisture.

It is not advisable to carry out gypsum plastering in laundries and other rooms with a relative humidity exceeding 70% for long periods.

While the plaster is drying, avoid direct sunlight and draughts and ensure that the rooms are properly ventilated and aired.

Use corrosion-resistant tools. Clean tools with clean water, immediately after use.

The information contained in this Technical Data Sheet is a basic guideline for the use of the product and does not release you from the obligation to carry out the work in accordance with the rules of the art of construction and health 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](http://www.atlas.com.pl).

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