

# Alsitop LP

Fibre reinforced lightweight undercoat render for all prevalent interior and exterior brick substrates



## AREAS OF APPLICATION

Lightweight mineral render (LW) with fibre reinforcement and EPS lightweight aggregates according to DIN EN 998-1 for highly insulating brickwork, e.g. porous clay bricks, lightweight concrete bricks, Bisotherm, Liapor, aerated concrete bricks and on interior and exterior mixed brickwork.

Not suitable for base areas.

## PRODUCT PROPERTIES

- Excellent adhesion to all mineral substrates
- Machine processing or by hand
- Can be reworked with all alsecco textured renders
- Very easy to work with
- Stress-relieved
- Specifically adapted to the properties of highly insulating wall elements
- Fibre reinforcement and EPS lightweight aggregates
- Lightweight render type II

## TECHNICAL DATA

Binder base	Mineral binder to DIN EN 197-1 and DIN 459-2 and aggregates to DIN EN 13139
Mortar category	CS II according to DIN EN 998-1 and P II according to DIN 18550-1
Dry mortar density	approx. 0,95 g/cm <sup>3</sup> according to DIN EN 1015-10
Adhesive pull strength	≥ 0,08 N/mm <sup>2</sup> according to DIN EN 1015-12
Water vapour permeability μ	≤ 20 according to DIN EN 1015-19
Fire behavior	A1 according to DIN EN 13501-1
Thermal conductivity	λ <sub>10 dry</sub> ≤ 0,23 W/(mK) for P= 50 % according to DIN EN 1745 λ <sub>10 dry</sub> ≤ 0,25 W/(mK) for P= 90 % according to DIN EN 1745
Water absorption	W2 to DIN EN 998-1 and c ≤ 0,20 kg/(m <sup>2</sup> min <sup>0,5</sup> ) to DIN EN 1015-18

Compressive strength	approx. 2,5 N/mm <sup>2</sup> according to DIN EN 1015-11
Flexural strength	approx. 1,1 N/mm <sup>2</sup> according to DIN EN 1015-11
Dynamic modulus of elasticity	approx. 2.500 N/mm <sup>2</sup>

## APPLICATION INSTRUCTIONS

Preparation	<p>Mask window sills and connecting parts.</p> <p>Thoroughly cover glass, ceramic, brick, natural stone, varnished, glazed and anodised surfaces.</p> <p>First, render the reveals, grip sockets and damaged areas.</p>
Substrate pre-treatment	<p>All substrates must be stable, level (DIN 18202), clean and free of any residue, which can reduce adhesiveness.</p> <p>Pre-wet substrate in the case of high temperatures.</p> <p>Always pre-wet dry aerated concrete.</p> <p>The substrate should be matt-moist.</p> <p>For improved bonding strength between the rendering base and the subsequent layer of render, wood wool lightweight building boards, smooth and/or slightly absorbent substrates, such as XPS and EPS insulation boards, must be fully coated with Armatop AKS or Armatop A and combed with a notched trowel (notch size 5 mm). Subsequent coats are applied 24 - 72 hours later, depending on weather conditions.</p> <p>Smooth masonry, masonry with inferior absorbency or concrete substrates should be pre-treated with a bonding coat or pricking-up coat.</p> <p>Walls that have been penetrated by moisture must be dried out first.</p> <p>Assessment and preparation of the rendering base as well as application of the render must always comply with VOB/C-ATV-DIN 18350 and DIN 18550-1 or DIN 18550-2, as applicable.</p>
Mixing	<p>Mix 20 kg material (one bag) with approx. 6,7 l of water.</p> <p>Mixing with conventional rendering machines, electric mixers or compulsory mixers.</p>
Application	<p><b>Constructing the render layer:</b></p> <p>Apply material mechanically or manually in the required render thickness using a bucket trowel and rustproof steel trowel and swipe smooth with a rendering darby.</p> <p>Sinter layers and unevenness must be roughened using a lattice plane or removed by levelling. Depending on the weather conditions, the surfaces can be levelled after 24 hours at the earliest.</p> <p>It is not absolutely necessary to apply adhesive primer between the undercoat render and textured render. An adhesive primer compatible with the textured render must be applied in the case of levelled surfaces.</p> <p>A thorough roughening of the first render layer in the case of two coats is required.</p> <p><b>Constructing render reinforcement:</b></p> <p>Areas prone to cracking consisting of various substrate properties (mixed</p>

brickwork, ring beams, shutter boxes, etc.) must be reinforced with a partial surface reinforcement consisting of Armatop AKS or Armatop MP with fibreglass mesh 32 for example prior to applying the base coat. render surfaces with an increased risk of cracking, e.g. in the area of windows and door corners, an additional reinforcement with fibreglass mesh universal-Aero must be embedded in the upper third of the primary coat.

As an alternative, an additional full surface layer of reinforcement render, e.g. using Alsitop L - Aero or Armatop A with the embedding of fibreglass mesh 32 can be carried out.

A second render layer consisting of Armatop L - Aero or Armatop A with the embedding of fibreglass mesh 32 e.g. is required for severely exposed layers, light reflectance values below 30 and finishing coats with grain size < 2 mm.

Use the embedded mesh in the area of joints overlapping by at least 10 cm. Additionally embed diagonal reinforcement strips in corner areas of building openings.

When using pebbledash scraped finishes as a finishing coat, Alsitop LP must be combed through horizontally and wave-like using a trowel with a notch size of 8mm.

Alsitop LP cannot be used without a finishing coat due to the organic lightweight aggregate. The use of solvent-based products is not possible.

**Installing corner rails:**

Place corner rail, which is adapted to layer thickness, e.g. Y corner rail KU into Alsitop LP.

**Base accessories:**

Depending on the substrate, base render LP or Armatop Base e.g. can be used.

Consumption

approx. 0,9 kg/m<sup>2</sup> per mm layer thickness

Determine the precise material requirements by means of a trial coating on the object.

Minimum layer thickness

min. of 15 - max. of 20 mm (single-layer)  
max. of 40 mm (two-layer)

Information about the weather

The temperature must not fall below +5°C and not exceed +30°C during application and drying.

Do not apply in direct sunlight.

Please note that the setting time is reduced in windy conditions.

Protect the plaster against drying out too quickly.

Drying time

approx. 1 day/mm layer thickness

Dependent on temperature, layer thickness and relative humidity.

Cleaning of tools

In a fresh state with water.

Application by machine

**Machinery / Equipment e.g.:**

Mixing pump PFT G4

Screw jacket: D6-3

Conveying screw: D6-3

Mortar hoses: 25 mm diam., 35 mm diam.

Wet-mortar conveying range: up to 20 m, up to 30 m

Please ask for our special information sheet on machine application.

**STORAGE**

Minimum storage life of 9 months if kept dry, protected against moisture, cool and in original sealed packaging.

**PACKAGING INFORMATION**

Colour	Grey
Packaging unit	Paper sack approx. 20 kg net Silo material

**OTHER INFORMATION**

Information on safety	The information provided in the current safety data sheet applies.
Transportation	Not a hazardous material
Giscode	ZP1 cement-based products, low in chromate

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The above information is based on many years of experience and tests and is provided by us to the best of our knowledge. Such information applies in addition to our application guidelines. However, we cannot accept any responsibility for the correctness of our recommendations on account of wide variety of substrates and of on-site conditions and applications which are outside our control. Any recommendations provided by our employees and deviating from these documents must be given in writing. We reserve right to make any changes on account of technical progress or building regulations. Your technical advisor will be pleased to provide the relevant product data sheets.

