

# Alsitop

Fibre reinforced facade lightweight render for highly insulating brickwork



## AREAS OF APPLICATION

Lightweight mineral render according to DIN EN 998-1 for highly insulating brickwork.  
 Material enabling primary and textured coating (grooved finish).  
 Do not use on mechanically heavily stressed surfaces.  
 Not suitable for base areas.

## PRODUCT PROPERTIES

- Extremely High water-vapour permeability
- Stress-relieved, high degree of deformability
- Extremely reliable and easy application due to lightweight aggregates
- Good adhesion to all mineral substrates
- Extremely economical because of lower material consumption and only one material for primary and textured coating
- Lightweight render type II
- Water-repellent according to DIN 18550-1, W2 according to DIN EN 998-1

## TECHNICAL DATA

Indicated fixed values represent average values, which can slightly vary from delivery to delivery due to the application of natural raw materials.

Binder base	Mineral binding agent according to DIN EN 197-1 and DIN EN 459-1
Apparent density of set mortar	$\gamma$ : approx. 0,7 g/cm <sup>3</sup>
Diffusion-equivalent air-layer thickness (10,0 mm)	$s_d$ : approx. 0,15 m Class V <sub>2</sub> according to DIN EN 1062
Water permeability	w: approx. 0,2 kg/(m <sup>2</sup> h <sup>1/2</sup> ) Class W <sub>2</sub> according to DIN EN 1062

## APPLICATION INSTRUCTIONS

Preparation	<p>Mask window sills and attachment parts.</p> <p>Use stop bead for precise connections on windows and doors.</p>
Substrate pre-treatment	<p>All substrates must be stable, clean and free of any residue, which can reduce adhesiveness.</p> <p>Pre-wet substrate in the case of high temperatures and wind.</p> <p>Comprehensively coat wood wool panels as well as residual formwork with Armatop AKS or MP and comb through using a notched trowel 5 mm. The following coatings can be applied 24-72 hours after that at the earliest; depending on the weather conditions.</p>
Mixing	<p>25 kg of material (one sack) in approx. 17 - 18 l of water.</p> <p>Mix with electric mixer or compulsory mixer.</p>
Application as base layer	<p><b>Installing corner rails</b></p> <p>Total layer thickness* 10 mm: Corner rail 1023  total layer thickness* 15 mm: Corner rail 1013  total layer thickness* 20 mm: Corner rail 1014  *total layer thickness (thickness primary coat + thickness textured coating)</p> <p>Place the corner rails completely into the primary coat and align.</p> <p><b>For extreme exposure to moisture and salt:</b></p> <p>Use corner rail 1016 for 15 mm layer thickness.  Use corner rail 1019 for 20 mm layer thickness.</p> <p><b>Installing base profiles</b></p> <p>Layer thickness 10 mm: Base profile 1227  layer thickness 15 mm: Base profile 1225  layer thickness 20 mm: Base profile 1229</p> <p>Constructing the primary coat</p> <p>Apply material mechanically or manually using a bucket trowel and rustproof steel trowel and level with a rendering darby.</p> <p>Additionally reinforce areas prone to cracking with fibreglass mesh universal-Aero, overlapping 10 cm in joint areas and coat with render in grain size. Fibreglass mesh universal-Aero must be fully embedded in the render layer for use on porous bricks and large-size brickwork as of a size of 625 x625 mm as well as colours with a light reflectance value &amp;lt; 20.</p> <p>A complete underlayer of mesh is always required in the base coat, preferably the product Alsitop-F is recommended, for application on highly insulating substrates with (<math>\gamma &lt; 0.10 \text{ W}/(\text{mK})</math>).</p> <p>Embed mesh and cover with render so that the mesh is embedded in the upper third of the primary coat.</p> <p>Additionally embed diagonal reinforcement strips in corner areas of building openings.</p>
Application as a texture layer	<p>To reduce the risk of staining in the case of pigmented decorative renders, pay attention to consistently dried substrates.</p>

In the case of longer waiting periods, thoroughly wet the dried primary coat before applying the textured coating.

#### Possible processing

Render	Processing
	Texture horizontally, vertically or with circular motions using wood or plastic trowel. As an alternative, different trowelled textures are possible. [*]
	Alsicolor Carbon significantly reduces the risk of microbial infestation.
	For light reflectance values below 20, the render must be coated with at least two coats of a suitable alsecco paint or varnish system after drying, preferably Alsicolor Carbon or Alsicolor Sc.

#### Consumption

		Alsitop Consumption approx. [kg/m <sup>2</sup> ]
<b>Primary coat</b>	Aerated concrete level/bonded	6,0
	Aerated concrete rendered	6 - 7
	Bricks rendered	8 - 9
	Textured coating	
<b>Strukturschicht</b>		2,5

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

#### Minimum layer thickness

1st coat - primary coat: 7 mm  
2nd coat - textured coating: 3 mm

#### Information about the weather

There cannot be temperatures below + 3 °C during application and drying.  
Do not apply in direct sunlight.  
In the case of wind, please observe the shorter setting time.  
Protect fresh render against rain and premature drying.

#### Interval

Primary coat: at least 24 hours.

#### Drying time

approx. 2 - 5 days  
Depending on temperature, relative humidity and quantity applied.

#### Cleaning of tools

In a fresh state with water.

#### Application by machine

Please request special information regarding machine processing.

**STORAGE**

Dry, protected against moisture, cool, shelf life in original sealed packaging of at least 1 year.

**PACKAGING INFORMATION**

Colour	White and pigmented. Due to their special properties, variations in colour or staining cannot always be avoided when using pigmented mineral renders. To ensure an even and planned colouring, a coating, preferably with Alsicolor Carbon or Alsicolor Finish is required for pigmented products and recommended for white products.
Packaging unit	Paper sack approx. 25 kg net

**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.



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