

# Armatop L - Aero

Mineral light mortar for bonding and reinforcing facade insulation boards



## AREAS OF APPLICATION

### Area of application

Bonding	Bonding of mineral wool and polystyrene facade insulation boards.
Reinforcement	Average to thick layered reinforcement (4 - 11 mm single layer) for alsecco facade systems and stable mineral substrates.

## PRODUCT PROPERTIES

- A material for insulation board bonding and reinforcement
- Excellent machinability
- Water-repellent
- Highly water-vapour permeable
- Easy to apply
- Good adhesion to all mineral substrates, PS rigid foam and mineral wool insulation boards
- Lightweight render mortar 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	approx. 1,0 g/cm <sup>3</sup> according to DIN EN 998-1
Adhesive pull strength	≥ 0,08 N/mm <sup>2</sup> according to DIN EN 998-1
Water vapour permeability μ	≤ 10 according to DIN EN 998-1
Water permeability	w ≤ 0,1 kg/(m <sup>2</sup> h <sup>1/2</sup> ) according to DIN EN 1062

Fire behavior	A2-s1, d0 according to DIN EN 13501
Water absorption	Class W <sub>2</sub> according to DIN EN 998-1
Compressive strength	Class CS II according to DIN EN 998-1
Diffusion-equivalent air-layer thickness (4,0 mm)	s <sub>d</sub> : approx. 0,04 m according to DIN EN ISO 7783

## APPLICATION INSTRUCTIONS

Preparation	Mask window sills and attachment parts. Diligently cover glass, ceramic, brick, natural stone, varnished, glazed and anodised surfaces.
Substrate pre-treatment	All substrates must be stable, dry, level (DIN 18202 or 18203), clean and free of any residue, which can reduce adhesiveness. Pretreat substrates according to the following specifications:

### Treatment

Mineral substrates,structurally identical to new	Cleaning
renders MG PII, PIII, stable, solid	None
renders MG PII, PIII, sandy surface	Hydro penetrating primer
Stable old coats or coatings, non-chalking	Clean with high pressure water jet,
Stable old coats or coatings, chalking	Clean with high pressure water jet, prime with Hydro penetrating primer
Unstable old coats or coatings	Remove coat/coating, Hydro penetrating primer
Polystyrene facade insulation boards, in mint condition	Remove thickness or height discrepancies by sanding, remove any accumulated dust
Polystyrene facade insulation boards, weathered	Sand down unstable area of the surface, remove any accumulated dust

Mixing	25 kg of material (one sack) in approx. 9 - 10 l of water. Mix with electric mixer or compulsory mixer.
Application as adhesive	Bond according to bead-spot or buttering-floating method. Minimum adhesive surface: 40%. Do not apply any adhesive in the area of the joints on the insulation boards. Never seal joints between insulation boards using adhesive but rather with insulation strips or PU filling foam (flame-resistant) . Install insulation boards in offset stretcher bond formation and butt together.

**Bead-spot method**

Apply circumferential beading bevelled to the edge of the board, to avoid adhesive being pressed into the butt and bed joints when attaching the boards.

Apply 3 - 6 adhesive dots for 0.5 m<sup>2</sup> insulation board surface.

Never fix insulation boards using spot bonding.

**Buttering-floating method**

Use only for level substrates.

Immediately after application of the adhesive, position insulation boards on the substrate and butt.

**Mechanical adhesive application**

Apply the material to the rear side of the insulation boards using a suitable mortar pump and adhesive applicator gun.

When using insulation boards that allow the adhesive to be applied to the substrate, there is also the option of applying the adhesive mechanically.

After application of the adhesive, position insulation boards on the substrate and butt. Place into adhesive mortar bed as a floating installation and press down.

**Note**

Please observe the product data sheet for the respective insulation material when deviating from the normal bonding method!

Metals, e.g. titanium zinc, can corrode in the event of direct contact with alkaline mortars.

Application as a reinforcing layer

**Installing corner rails**

Reinforcement layer 4-5 mm	Corner rail 1031 Corner rail KU with mesh
Reinforcement layer 7 mm	Corner rail 1023
Reinforcement layer 10 mm	Corner rail 1020

**Constructing the reinforcement**

Apply material mechanically or manually in the required coat thickness using a rustproof steel trowel.

Place the fibreglass mesh universal - Aero into the open mortar bed overlapping 10 cm and level using a smoothing trowel.

Embed the mesh approximately in the upper third of the reinforcement layer.

Additionally embed diagonal reinforcement strips or mesh strips (25 x 25 cm) diagonally in the reinforcement in corner areas of building openings.

**Constructing the reinforcement for render A with scraped finish as a final coat**

Observe reinforcement layer thickness of > 7 mm.

	Use mesh corner bead or place the mesh around the corners because the corner rails are placed on the reinforcement layer. Roughen reinforcement horizontally using notched trowel 5 x 5 mm.
Consumption	<b>Bonding:</b> approx. 3,5 - 5,0 kg/m <sup>2</sup> <b>Reinforcement:</b> approx. 1,1 kg per mm layer thickness per m <sup>2</sup> Determine the precise material requirements by means of a trial coating on the object.
Information about the weather	There cannot be temperatures below + 3 °C during application and drying. Protect against premature drying, do not apply in direct sunlight. In the case of wind, please observe the shorter setting time.
Interval	<b>Bonding</b> Depending on the weather conditions, anchoring or reworking after 24 hours at the earliest. <b>Reinforcement</b> For reinforcement layer thicknesses up to approx. 6 mm, reworking with mineral textured renders after 2 days at the earliest, depending on the weather conditions, with resin or silicone resin renders after 5 days at the earliest, for thicker reinforcement layers at an accordingly later time.
Drying time	approx. 2 - 3 days. Dependent on temperature and relative humidity.
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	Natural white
Packaging unit	Paper sack approx. 25 kg net Silo up to 10 m <sup>3</sup>

## 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.

