

Armatop AKS

Adhesive and reinforcing compound for alsecco facade systems



AREAS OF APPLICATION

Area of application

Bonding	Bonding of mineral wool, polystyrene and cork facade insulation boards
Reinforcement	Preparation of the reinforcement layer in the product lines "basic", "ecomin" and on painted, stable substrates. Application on old, cracked, mineral and stable substrates.

PRODUCT PROPERTIES

- Water-repellent
- Highly water-vapour permeable
- Strong adhesive power on nearly all substrates
- Highly elastic
- Machine usable
- A material for insulation board bonding and reinforcement
- Normal 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 Resin dispersion powder
Apparent density of set mortar	approx. 1,5 g/cm ³ according to DIN EN 998-1
Adhesive pull strength	≥ 0,08 N/mm ² according to DIN EN 998-1

Adhesive pull strength on polystyrene	$\geq 0,08 \text{ N/mm}^2$
Water vapour permeability μ	≤ 25 according to DIN EN 998-1
Water permeability	$w \leq 0,2 \text{ kg}/(\text{m}^2\text{h}^{1/2})$ according to DIN EN 1062
Fire behavior	A2-s1, d0 according to DIN EN 13501
Water absorption	Class W ₂ according to DIN EN 998-1
Compressive strength	Class CS IV according to DIN EN 998-1
Diffusion-equivalent air-layer thickness (3,0 mm)	$s_d < 0,1 \text{ m}$ according to DIN EN ISO 7783

APPLICATION INSTRUCTIONS

Preparation	Mask window sills and attachment parts.
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. 6,0 l of water Mix with electric mixer or compulsory mixer. Mix again after approx. 2 minutes. Do not mix more material than can be used within 2 - 2,5 hours.
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.
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 m² 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.
After application of the adhesive, position insulation boards on the substrate and butt.

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 or mesh corner beads

Before reinforcing, place completely into Armatop AKS and align.
Corner rail 9078, corner rail 1031, aluminium corner rail with mesh and corner rail KU with mesh are used.

Constructing the reinforcement

Apply material mechanically or manually with a layer thickness of 3 mm .
Combing through with a 10 mm notched trowel is recommended, to check the minimum layer thickness.
Place the fibreglass mesh³² into the open mortar bed overlapping 10 cm and level using a smoothing trowel.
Embed the reinforcement mesh so that it is positioned in the middle 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.

Consumption

Bonding:

approx. 4,5 - 6,0 kg/m²

Reinforcement:

approx. 1,5 kg per mm layer thickness per m²

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

Minimum layer thickness of reinforcement approx. 3 mm

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 **Bonding**
Depending on the weather conditions, reworkable after 24 h at the earliest. Anchoring and reworking of the insulation boards only after that.

Reinforcement

Depending on the weather conditions, reworkable after 24 h at the earliest for reworking with mineral textured renders.

Depending on the weather conditions, reworkable after 5 days at the earliest for reworking with resin or silicone resin renders.

Drying time approx. 1 - 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 Light grey
Packaging unit Paper sack approx. 25 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.



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