

Armatop Uni

Adhesive and reinforcing compound for alsecco facade systems



AREAS OF APPLICATION

Area of application

External thermal insulation cladding system	Bonding of mineral wool and polystyrene facade insulation boards. Average layered reinforcement (3-7 mm on EPS, 4-7 mm on mineral wool) for new construction and reconstruction.
Renovation system	Renovation mortar, to coat/even out old, cracked but stable textured renders with or without highly adhesive coating.

PRODUCT PROPERTIES

- A material for insulation board bonding and reinforcement
- Increased mechanical load
- Fibre reinforced
- Can be easily felted
- Good adhesion to all mineral substrates, PS rigid foam and mineral wool insulation boards
- Highly water-vapour permeable
- Easy to apply
- Machine-processable and silo compatible
- Natural white
- Normal render mortar according to DIN EN 998-1
- Water-repellent

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. 1,5 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	≥ 0,08 N/mm ²
Water vapour permeability μ	≤ 15 according to DIN EN 998-1
Water permeability	w: approx. 0,1 kg/(m ² 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 III according to DIN EN 998-1
Diffusion-equivalent air-layer thickness (4,0 mm)	s _d < 0,05 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
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Polystyrene facade insulation boards, weathered	Sand down unstable area of the surface, remove any accumulated dust
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Mixing

25 kg of material (one sack) in approx. 6,2 l of water.

Mix with electric mixer or compulsory mixer.

Do not mix more material than can be used within 2 h.

Application as adhesive

Prime mineral insulation boards before application of the Armatop Uni in the adhesive area.

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.

Note

Please observe additional requirements laid down by the general approval of the building authorities for bonding!

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 Uni and align.

Reinforcement layer 3-7 mm

Mesh corner bead 10/15 bzw. 10/23
aluminium corner rail with
mesh stainless steel corner rail with
mesh

KU corner rail with mesh

Reinforcement layer approx. 7 mm

corner rail 1023



Reinforcement layer 10 mm

corner rail1020
corner rail 2218**Constructing the reinforcement**

Apply material mechanically or manually in the required coat thickness (3-7 mm on EPS, 4-7 mm on Mineral wool) using a rustproof steel trowel. Comb through evenly using a notched trowel and level with a rendering darby.

Place the fibreglass mesh 32 or universal- Aero 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 for reinforcement layer thicknesses up to 4 mm and in the upper half for thicknesses exceeding 4 mm.

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

Application as a
renovationmortar

To compensate for substrate unevenness up to 10 mm, apply the material mechanically or manually using a rustproof steel trowel and level with a rendering darby, if necessary, embed fibreglass mesh (32 or universal- Aero).

Mesh must always be embedded for applications as a renovation mortar on external thermal insulation cladding systems.

For two-layer applications, the first coat must have set but not be completely dry. It is recommended to embed mesh in the top third of the last coat.

Application as a texture render

Apply mortar in a thickness of approx. 3 - 5 mm for freely modellable textures and shape the surface using suitable tools.

If necessary, work on the mortar with a small amount of water and a soft brush after the mortar begins to set (washed-out trowel marked texture).

Apply mortar in a thickness of approx. 3 mm for felted texture and after setting, wipe down using a sponge float.

The surface must be coated after the applied textured render has dried. For this purpose, preferably two coats with Alsicolor Carbon is recommended. This significantly reduces the risk of microbial infestation.

By felting using a sponge float, binding agents and/or fine particles from the render matrix can accumulate irregularly on the render surface, which can reduce adhesiveness on the subsequent coatings. To ensure sufficient adhesion, a primer corresponding to the planned coating system is recommended prior to applying the subsequent coatings.

Consumption

Bonding: approx. 4,5 - 6,0 kg/m²**Reinforcement:** approx. 1,5 kg per mm layer thickness per m²**Reconstruction:** approx. 1,5kg per mm layer thickness per m²

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

Layer thickness

Minimum: 3 mm**Maximum:** 10 mm (reinforcement in ETICS: 7 mm)

Multi-coating is possible.

Embed the fibreglass mesh into the last layer for multilayer applications.



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, anchoring or reworking after 24 hours at the earliest. Reinforcement - thin layer: Depending on the weather conditions, reworkable after 2 days 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. Reconstruction - reinforcement thick layer: Depending on the weather conditions, for application without fibreglass mesh per mm layer thickness 1 day, for reworking with organic textured renders however, at least 5 days.
Drying time	approx. 3 - 5 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	White
Packaging unit	Sack approx. 25 kg net Silo and oneway upon request

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.

