

Armatop A

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	Average layered reinforcement (4 - 7 mm for single layers, max. of 10 mm for two layers) for alsecco facade systems and on coated stable substrates

PRODUCT PROPERTIES

- A material for insulation board bonding and reinforcement
- Water-repellent
- Highly water-vapour permeable
- Easy to apply
- Good adhesion to all mineral substrates, PS rigid foam and mineral wool insulation boards
- Increased mechanical load
- 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. 1,4 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	≥ 0,08 N/mm ²

polystyrene

Water vapour permeability μ	≤ 25 according to DIN EN 998-1
Water permeability	$w \leq 0,15 \text{ kg}/(\text{m}^2\text{h}^{1/2})$ 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 III according to DIN EN 998-1
Diffusion-equivalent air-layer thickness (4,0 mm)	$s_d < 0,1 \text{ m}$ 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:																
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	<table border="1"> <tr> <td>Mineral substrates, structurally identical to new</td> <td>Cleaning</td> </tr> <tr> <td>renders MG PII, PIII, stable, solid</td> <td>None</td> </tr> <tr> <td>renders MG PII, PIII, sandy surface</td> <td>Hydro penetrating primer</td> </tr> <tr> <td>Stable old coats or coatings, non-chalking</td> <td>Clean with high pressure water jet,</td> </tr> <tr> <td>Stable old coats or coatings, chalking</td> <td>Clean with high pressure water jet, prime with Hydro penetrating primer</td> </tr> <tr> <td>Unstable old coats or coatings</td> <td>Remove coat/coating, Hydro penetrating primer</td> </tr> <tr> <td>Polystyrene facade insulation boards, in mint condition</td> <td>Remove thickness or height discrepancies by sanding, remove any accumulated dust</td> </tr> <tr> <td>Polystyrene facade insulation boards, weathered</td> <td>Sand down unstable area of the surface, remove any accumulated dust</td> </tr> </table>	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
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Mixing	25 kg of material (one sack) in approx. 5,8 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 A 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.

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 A and align

Reinforcement layer 4-6 mm	Mesh corner bead 10/15 or 10/23 aluminium corner rail with mesh stainless steel corner rail with mesh KU corner rail with mesh
Reinforcement layer ≥ 7 mm	Corner rail 1023
Reinforcement layer 10 mm	Corner rail 1020
For render with scraped finish 1,5 mm	Corner rail 1023 on reinforcement layer
For render with scraped finish 3,0 mm	Corner rail 1020 on reinforcement layer



Constructing the reinforcement

Apply material mechanically or manually in the required coat thickness using a rustproof steel trowel, comb through with notched trowel R and level with rendering darby.

Two layers are required for layer thicknesses > 7 mm. In the process, the thickness of the second layer must be smaller than the first.

Before applying the second coat, the first coat must have set but not be completely dry.

Place fibreglass mesh (32, universal - Aero, K) 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, in the upper half for thicknesses exceeding 4 mm and in the upper third for thick-layered reinforcement.

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

Create reinforcement layer thickness of approx. 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.

Constructing the reinforcement for ceramic as a final coat

Please request more information about these system models!

Consumption

Bonding:

approx. 4,5 - 6,0 kg/m²

Reinforcement:

approx. 1,4 kg per mm layer thickness per m²

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

Layer thickness of reinforcement

	Layerthickness
Minimum:	4 mm
Maximum single layer:	7 mm
Maximum double layer:	10 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, anchoring or reworking after 24 hours at the earliest.

Reinforcement

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.
Drying time	approx. 3 - 5 days Dependent on temperature, layer thickness 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	Grey
Packaging unit	Paper sack approx. 25 kg net Silo: 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