

Armatop Solid

Dustreducing adhesive and base coat for mechanically loaded surfaces in alsecco facade systems



AREAS OF APPLICATION

Area of application

Adhesive	Bonding of mineral wool and polystyrene facade insulation boards.
Base coat	For thin and average base coats (3 - 8 mm on polystyrene facade insulation boards, 4 - 8 mm on mineral wool facade insulation boards) for alsecco systems and application on old, cracked, mineral and load-bearing substrates.

PRODUCT PROPERTIES

- Carbon-fibre reinforced
- Impact strength of 12 joules can be reached
- Low dust generation for increased health protection according to classification report IGF (BG RCI) per DIN EN 15051-3
- Good adhesion to all mineral substrates, PS rigid foam and mineral wool insulation boards
- Highly water-vapour permeable
- Smooth processing
- Water-repellent
- Normal plaster 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 binder according to DIN EN 197-1 Synthetic resin dispersions powder
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Apparent density of set mortar	approx. 1,3 g/cm ³ according to DIN EN 998-1
Adhesive pull strength	≥ 0,5 N/mm ² according to DIN EN 998-1
Water vapour permeability μ	≤ 25 according to DIN EN 998-1
Water permeability	$w \leq 0,1 \text{ kg}/(\text{m}^2\text{h}^{1/2})$ according to DIN EN 1062 Class W ₃ (low) according to DIN EN 1062
Fire behavior	A2-s1, d0 according to DIN EN 13501-1
Water absorption	Class W0 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. Cover glass, ceramic, brick, natural stone, varnished, glazed and anodised surfaces carefully.
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:

Substrate	Treatment
Mineral substrates, structurally identical to new	Cleaning
Plasters MG PII, PIII, stable, solid	None
Plasters 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 bag) in approx. 9 - 10 l of water Mix with electric mixer or compulsory mixer. Mix again after approx. 2 minutes.
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 use adhesive for filling the joints between the insulation boards, but use the same insulation or for joints PU filling foam.

Install insulation boards offset in a bond formation and butt tightly.

Bead-spot method

Apply circumferential beading beveled 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 only 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 base coat

Installing corner rails

Base coat 3-5 mm	Eckschiene KU mit Gewebe
	Eckschiene Alu mit Gewebe
	Eckschiene Edelstahl mit Gewebe
Base coat 6-8 mm	Eckschiene 1023

Embed corner rails or mesh corner beads fully into the Armatop Solid layer and align.

Installing the base coat

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

Place the Glasfasergewebe 32 into the open mortar bed overlapping 10 cm and level using a smoothing trowel.

Embed the glas fibre mesh so that it is positioned in the middle for base coat layer

thicknesses up to 4 mm and in the upper half for thicknesses exceeding 4 mm. Additionally embed diagonal or straight glas fibre mesh strips (25 x 25 cm) diagonally in the base coat in the corner areas of building openings.

Installing the base coat for Kratzputz A (scraped finishing coat)

Observe base coat thickness of 7-8 mm.

Use mesh corner bead or place the mesh around the corners because the corner rails are placed onto the base coat.

Roughen the base coat horizontally using notched trowel 5 x 5 mm.

Consumption

Adhesive:

approx. 4,0 - 5,0 kg/m²

Reinforcement:

approx. 1,3 kg per mm layer thickness per m²

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

Weather conditions

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.

Waiting period

Adhesive

Depending on the weather conditions, reworkable after 24 h at the earliest.

Base coat

For base coat layer thicknesses up to approx. 6 mm, reworking with mineral finishing coats after 2 days at the earliest, depending on the weather conditions, with resin or silicone resin finishing coats after 5 days at the earliest, for thicker base coat 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 bag 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
Plaster code	ZP1 cement-based products, low in chromate
General information	Minimal dust generation (S_A) according to DIN EN 15051-3

Dust class	Respirable dust fraction (S_E), $w_{I,B}$; $\text{mg} \cdot \text{kg}^{-1}$	Alveolar dust fraction (S_A), $w_{R,B}$; $\text{mg} \cdot \text{kg}^{-1}$
low dust generation	< 1.000	< 20
minimal dust generation	1.000 to 4.000	20 to 70
dust generation	> 4.000 to 15.000	> 70 to 300
high dust generation	> 15.000	> 300