

# Armatop Carbon

Organic adhesive and reinforcing compound with carbon technology for alsecco facade systems



## AREAS OF APPLICATION

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Bonding	Bonding of polystyrene insulation boards
Reinforcement	Reinforcing compound for application on polystyrene, mineral wool lamella insulation boards and mineral wool insulation boards in external thermal insulation cladding systems. Renovation filler for cracked substrates. Cannot be reworked with mineral adhesives and renders.

## PRODUCT PROPERTIES

- Carbon-fibre reinforced
- Impact resistance of 20 joules e.g. can be reached with the Alprotect Carbon system
- Water-repellent
- Easy to apply
- Low material consumption
- Extremely impact and crack resistant

## 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	Styrene acrylic
Specific gravity	approx. 1,3 g/cm <sup>3</sup>
Water permeability	w: approx. 0,02 kg/(m <sup>2</sup> h <sup>1/2</sup> ) according to DIN EN 1062 Class W <sub>3</sub> (low) according to DIN EN 1062

Diffusion-equivalent air-layer thickness (3,0 mm)

$s_d < 0,5$  m according to DIN EN ISO 7783  
Class V<sub>2</sub> (medium) 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:

Substrate	Treatment
Mineral substrates, structurally identical to new	Cleaning
renders MG PII, PIII, stable, solid	Cleaning
renders MG PII, PIII, sandy surface	Hydro penetrating primer
Stable old coats or coatings, non-chalking	Clean with high pressure water jet, prime with Primer P
Stable old coats or coatings, chalking	Clean with high pressure water jet, prime with Hydro penetrating primer, then apply Primer P
Unstable old coats or coatings	Remove coat/coating, Hydro penetrating primer
Mineral wool facade insulation boards	None
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

Ready to use

Stir using an electric mixer or if applicable, with a small amount of water, to obtain a workable consistency.

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 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.

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

#### **Note**

All substrates must be dry.

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

Application as a reinforcing layer

#### **Installing corner rails or mesh corner beads**

Before reinforcing, place completely into Armatop Carbon and align.

Corner rail 9078, corner rail 1013, aluminium corner rail with mesh and corner rail KU with mesh are used.

#### **Reinforcing**

Apply material to EPS mechanically or manually with a layer thickness of 2 - 5 mm.

Observe layer thicknesses of 4 - 5 mm on mineral wool insulation boards.

Combing through with a 10 mm notched trowel is recommended, to check the minimum layer thickness.

Place system mesh Carbon or fibreglass mesh 32 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.

Consumption

#### **Bonding**

approx. 2,8 kg/m<sup>2</sup>

#### **Reinforcing**

1,3 kg/m<sup>2</sup>

(1,3 kg/m<sup>2</sup> per mm Layer thickness)

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

Minimum layer thickness of reinforcement

approx. 2 mm

Information about the weather

There cannot be temperatures below + 5 °C during application and drying.

Do not apply in direct sunlight.

In the case of wind, please observe the shorter setting time.

Observe longer drying times in lower temperatures and high humidity.



Protect against rain in the drying phase.

If it cannot be ensured that the minimum application temperatures are adhered to, there is the option of using alternative products for autumn weather conditions.

Please request advice regarding more information on this product group.

Interval

#### **Bonding**

Depending on the weather conditions, anchoring or reworking after approx. 2 - 3 days at the earliest.

#### **Reinforcement**

Depending on the weather conditions, reworkable with decorative render after approx. 2 - 3 days at the earliest.

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

Shelf life in original sealed packaging of at least 1 year when kept cool and protected against frost.

In disposable container alsecco one-way at least 6 months.

### PACKAGING INFORMATION

Colour

Cream

Packaging unit

PP bucket approx. 20 kg net

Disposable container alsecco one-way approx. 900 kg net

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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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