



## Alsecco Alprotect Carbon

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### Detailed description

External wall insulation system offering unique carbon fibre technology. It ensures maximum resistance to mechanical stress (up to 70 joules) and improved thermal performance, Alprotect Carbon provides extreme durability and versatility to modern façade design. This slim-line patented system achieves enormous stability and unrivalled impact strength.

### Features/ Benefits:

- Carbon fibre technology.
- Unrivalled impact strength for a thin coat system.
- Up to 70 joules achievable.
- Wide range of colours including dark and intensive hues.
- 30% application time saving compared with conventionally reinforced systems.
- Enhanced protection against algae and fungal growth.
- Maximum level of crack resistance.

### Product guidance - As Standard

#### Fire rating:

B-s2, d0.

### Options

#### Sub primer:

##### - Sub Primer HT:

- Material: Acrylic-resin dispersion.
- Colour: Opaque blue (transparent when dry).
- Density: 1.0 g/cm<sup>3</sup>.
- Drying time: 2–4 hours (approximate).

##### - Sub Primer P:

- Material: Styrene acrylate dissolved in solvent.
- Colour: Transparent.
- Density: 0.82 g/cm<sup>3</sup>.

#### Insulation boards:

- Material: Expanded polystyrene (EPS).
- Size: Up to 1200 x 600 mm.
- Tensile strength: ≥80 kPa.

alsecco (UK) Ltd



**alsecco (UK) Ltd**  
Whitebridge Way  
Stone  
Staffordshire  
ST15 8JS

Tel: +44 (0)1785 818998

[www.alsecco.co.uk](http://www.alsecco.co.uk)  
[technical@alsecco.co.uk](mailto:technical@alsecco.co.uk)



## Insulation adhesive:

### - Armatop MP:

- Material: Cement-based, comprising limestone sand and additives.
- Colour: Grey.
- Density: 1.4 g/cm<sup>3</sup>.
- Adhesive pull strength:  $\geq 0.08$  N/mm<sup>2</sup> (on polystyrene).
- Capillary water absorption:  $w = < 0.2$  kg/(m<sup>2</sup>h<sup>1/2</sup>).
- Diffusion-equivalent air-layer thickness:  $s_d = < 0.1$  m (at 2 mm).
- Drying time: 1–3 days (approximate).

### - Thermastick FW:

- Material: Acrylate copolymer dispersion.
- Colour: White.
- Density: 1.65 g/cm<sup>3</sup>.
- Drying time: 72 hours (approximate).

## Reinforcement:

### - Alsitex Carbon Mesh:

- Material: Multi-stranded alkali-resistant glass-fibres with a polymer coating.
- Size: 4 x 4 mm.
- Width: 1100 mm.
- Weight: 160 g/m<sup>2</sup>.
- Colour: Grey.
- Tensile strength: Longitudinal: 2000 N/50mm; Transverse: 2000 N/50mm.

### - Mesh 32:

- Material: Multi-stranded alkali-resistant glass-fibres with a polymer coating.
- Size: 4 x 4 mm.
- Width: 1100 mm.
- Weight: 160 g/m<sup>2</sup>.
- Colour: White.
- Tensile strength: Longitudinal: 2000 N/50mm; Transverse: 2000 N/50mm.

### - Panzer Heavy Duty Mesh:

- Size: 6 x 6 mm.
- Width: 1000 mm.
- Weight: 330 g/m<sup>2</sup>.



- Colour: White.
- Tensile strength: Longitudinal: 3200 N/50mm; Transverse: 3500 N/50mm.

#### Basecoat:

##### - Armatop Carbon:

- Material: Styrene acrylate.
- Colour: Cream.
- Density: 1.3 g/cm<sup>3</sup>.
- Capillary water absorption:  $w = 0.02 \text{ kg}/(\text{m}^2\text{h}^{1/2})$ .
- Diffusion-equivalent air-layer thickness:  $sd = 0.5 \text{ m}$  (at 2 mm).
- Drying time: 1–3 days (approximate).

##### - Armatop Carbon - Ice:

- Material: Styrene acrylate.
- Colour: Cream.
- Density: 1.3 g/cm<sup>3</sup>.
- Capillary water absorption:  $w = 0.02 \text{ kg}/(\text{m}^2\text{h}^{1/2})$ .
- Diffusion-equivalent air-layer thickness:  $sd = 0.5 \text{ m}$  (at 2 mm).

#### Finish primer:

##### - Top Primer P:

- Material: Synthetic-resin dispersion.
- Colour: Natural white or coloured.
- Drying time: 2–6 hours (approximate).

##### - Top Primer SC:

- Material: Acrylic-resin dispersion.
- Colour: Natural white or coloured.
- Drying time: 2–6 hours (approximate).

### Product specification

#### Manufacturer

- Name: alsecco (UK) Ltd
- Web: [www.alsecco.co.uk](http://www.alsecco.co.uk)
- Email: [technical@alsecco.co.uk](mailto:technical@alsecco.co.uk)
- Tel: +44 (0)1785 818998
- Fax: +44 (0)1785 818144



- Address: Whitebridge Way, Stone, Staffordshire ST15 8JS

**Product reference** Alsecco Alprotect Carbon

**Sub primer** Sub Primer HT - Solvent-free synthetic-resin dispersion primer.  
Sub Primer P - Synthetic-resin dispersion primer.

### Insulation

- Adhesive Armatop MP - Bonding compound.  
Thermastick FW - Adhesive for bonding to most manufactured sheathing board substrates.

- Type EPS 15 SE, EPS 70 - Polystyrene insulation boards with square edges for fixing by bonding and anchoring.

- Thickness [ ]

- Colour Graphite Enhanced EPS 030 - 0.030 W/mK.  
Graphite Enhanced EPS 031 - 0.031 W/mK.  
Graphite Enhanced EPS 032 - 0.032 W/mK.  
White EPS 037 - 0.037 W/mK.  
White EPS 038 - 0.038 W/mK.

- Mechanical fixings [ ]

### Reinforcement

- Type Alsitex Carbon - System mesh.  
Mesh 32 - System mesh.  
Panzer Heavy Duty Mesh - To prepare highly impact-resistant reinforcing layers, for use with System mesh.

- Basecoat Armatop Carbon - Organic adhesive and reinforcing compound with carbon technology.  
Armatop Carbon Ice - Organic winter adhesive and reinforcing compound with carbon technology.

### Finish

- Primer Top Primer P - Pigmented synthetic-resin bonded primer.  
Top Primer P Ice - Winter formula pigmented synthetic-resin bonded primer.  
Top Primer SC - Pigmented filled primer.

### Finish

- Type Alsilite Sc Carbon - Lightweight silicone-



resin plaster with scraped finish.  
Orgatect R - Decorative synthetic-resin plaster with a grooved finish.  
Orgatect R Ice - Winter formula decorative synthetic-resin plaster with a grooved finish.  
Orgatect T - Decorative synthetic-resin plaster with a scraped finish.  
Orgatect T Ice - Winter formula decorative synthetic-resin render with scraped finish.  
Silitect R - Decorative silicone-resin plaster with a grooved finish.  
Silitect T - Decorative silicone-resin plaster with a scraped finish.  
Silitect T Ice - Winter formula silicone-resin decorative render with scraped finish.

- Colour

- Size

**Protective coating**

- Paint Not required  
Alsicolor Carbon - Carbon-fibre reinforced silicone resin paint.  
Alsicolor Finish - Acrylic-resin paint.  
Alsicolor SC - Silicone-resin paint.

- Colour

**Accessories**

[None]  
[Alsecco acrylic-based joint sealant]  
[Alsecco aluminium profiles]  
[Alsecco profile connectors and fixings]  
[Alsecco PU foam]  
[Alsecco PVC-U profiles]  
[Alsecco sealing tape]  
[Alsecco stainless steel profiles]