

## PRODUCT DETAILS



Product name **Proteus Pro-Felt® Endura SA AVCL**

Product type Air and vapour control layer

## PRODUCT DESCRIPTION

**Proteus Pro-Felt® Endura SA AVCL** is a self-adhesive air and vapour control membrane for use on concrete, steel, and timber.

The quartz sand on the upper side enables bonding, when used with **Proteus Pro-Bond Foaming**, between the **Proteus Pro-Felt® Endura SA AVCL** and the **Proteus Pro-Therm Insulation**.

## APPLICATION

### Timber

- When laying **Proteus Pro-Felt® Endura SA AVCL** on timber framework of wood-based materials, the substrate must be prepared with **Proteus Pro-Prime® SA** and adhesion checked
- Any lap should be a minimum of **8 cm**
- To bond the seam and joint overlap, remove the film on the underside and fold over the joint area

### Metal

- The substrate must be prepared with **Proteus Pro-Prime® SA** and adhesion checked
- To install **Proteus Pro-Felt® Endura SA AVCL** on a steel sheet, any lap should be a minimum of **8 cm**
- To bond the seam and joint overlap, remove the film on the underside and fold over the joint area
- The side seam overlap must rest on the top flange of the trapezoidal steel sheet

### Concrete

- For full surface bonding of **Proteus Pro-Felt® Endura SA AVCL** to reinforced concrete, the substrate must be checked for suitability with an adhesion test. It must be dry, frost free, level, firm, load bearing, free from contamination, and other separating substances, such as dirt, oil, grease, and dust
- Loose parts or sharp-edged uneven areas must be removed or repaired
- The substrate must be prepared with **Proteus Pro-Prime® SA** and adhesion checked
- In colder temperatures, and with insufficient adhesion, the compound may need to be thermally activated, in compliance with Safe2Torch guidelines, where applicable

## INSTALLATION

- Regardless of the substructure, all seam and joint overlaps must be welded and rolled with a suitable hot air gun and pressure roller
- By welding the seam and joint overlap, temporary/emergency waterproofing can be achieved.
- Other layers should be installed step by step
- When using **Proteus Pro-Felt® Endura SA AVCL** as a temporary/emergency waterproofing, a minimum roof slope of **2%** is required
- The **Proteus Pro-Felt® Endura SA AVCL** must be checked regularly before continuing the waterproofing work, and repaired if necessary in the event of damage

## MATERIAL

- Quartz sand top side
- Polymer bitumen coating
- Glass and aluminium composite carrier
- Stripping film and seam underside

## PACKAGING

Felt rolls wrapped with paper seal.

## CHEMICAL PROPERTIES, SAFETY GUIDANCE AND DISPOSAL

Please refer to **Proteus Pro-Felt® Endura SA AVCL** [Material Safety Datasheet](#).

**Proteus Pro-Felt® Endura SA AVCL** is resistant to water and aqueous solutions of salts, as well as diluted, non-oxidising acids and bases. Is dissolved by aliphatic and aromatic hydrocarbons, as well as chlorinated hydrocarbons, oils, and greases.

## SHELF LIFE AND HANDLING

Store in a cool and dry area. Protect from direct sunlight. Product should be installed no longer than 3 months after the delivery date.

During cold weather applications, rolls should be stored at pre-tempered temperatures, and installed shortly after transportation to the application area.

Always use relevant safe manual handling techniques for product of this size and weight.

## TECHNICAL INFORMATION

Characteristic	Value	Unit	Standard
Visible defects	no visible defects	-	EN 1850-1
Length	≥ 10	m	EN 1848-1
Width	≥ 1	m	EN 1848-1
Straightness	< 20	mm/10m	EN 1848-1
Mass per unit area	3.5	kg/m <sup>2</sup>	-
Thickness	2.5 (± 7.5%)	mm	EN 1849-1
Watertightness	100	kPa	EN 1928-B
Maximum tensile force	≥ 1000/1000	N	EN 12311-1
Elongation at maximum tensile force	≥ 2/2	%	EN 12311-1
Heat resistance	≥ 100	°C	EN 1110
Cold bending behaviour	≤ -25	°C	EN 1109
Diffusion-equivalent air layer thickness	sd ≥ 1500	m	EN 1931
Resistance to Fire	E	-	EN 13501-1

## CERTIFICATION

Type	Name	Reference
BBA	Proteus Pro-Felt® Endura	22/6033

## SIZE, FINISH AND COLOUR

Product Code	Length (m)	Width (m)	Colour	Finish	Weight (kg)
FTEVCSSA10	10	1	Black	Quartz Sand	35

## LIMITATIONS OF USE

For professional use only.

## GUARANTEES

Defects arising from lack of maintenance or abnormal use may fall outside of the cover of the Proteus Waterproofing guarantee.

## GUIDELINES AND STANDARDS

It is the responsibility of the Contractor to thoroughly familiarise themselves with all relevant Codes of Practice and Building Regulations to the works or referred in the specification.

Proteus Waterproofing take no responsibility for misinterpretation or lack of knowledge for third parties.

The works shall be carried out in accordance with the requirements of:

- **BS 6229** Flat roofs with continuously supported flexible waterproof coverings - Code of practice
- **BS 8217** Reinforced bitumen membranes for roofing - Code of practice
- **BS 8000-0** Workmanship on construction sites - Introduction and general principles
- **BS 8000-4** Workmanship on building sites - Code of practice for waterproofing
- **LRWA** [Design Guide for Specifiers](#)
- **S2T** [Safe to Torch](#)
- **GRO** [Code of Best Practice](#)