



TECHNICAL DATASHEET

Reference Date:
Version 1.2, May 2023

PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Proteus Pro-Felt® Endura AIRdhesive

PRODUCT TYPE: Felt

PRODUCT/SKU CODE: FTESLAIR05

PRODUCT DATASHEET REFERENCE: TDS_FTESLAIR05_Proteus Pro-Felt Endura AIRdhesive_V1.2_110523

COMPANY: Proteus Waterproofing Ltd, 21a Sirdar Road, Brook Road Industrial Estate, Rayleigh, Essex SS6 7XF, United Kingdom

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PRODUCT DESCRIPTION

Proteus Pro-Felt® Endura AIRdhesive is a single layer, bituminous membrane which is saturated and coated with high percentage SBS (Styrene-Butadiene-Styrene) modified bitumen. It features high quality polyester reinforcement, a mineral finish on its upper surface and has a fleece finish on its underside.

Proteus Pro-Felt® Endura AIRdhesive offers flexibility of installation, and can be bonded in Proteus Pro-Membrane Adhesive or mechanically fixed to suitable substrates. Where required, Proteus Pro-Felt® Endura AIRdhesive can be specified as a completely flame-free waterproofing solution and it can also be used as fast-track method of overlaying existing roof coverings. In addition, the advanced formulation of Proteus Pro-Felt® Endura AIRdhesive ensures excellent flexibility at low temperatures and a high flow resistance at elevated temperatures.

APPLICATION & USE

Proteus Pro-Felt® Endura AIRdhesive should be installed in accordance with manufacturer recommendations and all relevant national standards and codes of practice, including BS 8217: 2005 – the code of practice for reinforced bitumen membranes for roofing.

Roofing contractors should also be fully conversant with the guidelines set out in the National Federation of Roofing Contractors (NFRC) 'Safe2Torch' campaign. All operatives using torch guns or hot air guns during installation should be competent, conversant and capable of using such items in a safe and responsible manner. Care must also be taken when using torches and hot air guns in close proximity to combustible materials, decorative coatings and heat sensitive materials.

When setting out the field area, rolls should always be laid in the same direction. Side lap width is 12cm with end laps of at least 15 cm.

MATERIAL

Reinforcement:	Polyester
Compound:	SBS modified bitumen
Upper Finish:	Mineral/Slate
Lower Finish:	Fleece
Intended Use:	Single layer capsheet
Application Method:	Hot air

WEIGHT

28kg roll

FINISH & COLOUR

Upper Finish: Mineral

Colour: Anthracite

PACKAGING

Proteus Waterproofing felt label tape

PACK SIZE/UNIT OF MEASURE

- Rolls sold individually.
- Please refer to the table below in the 'Size & Dimensions' section for more information.

CHEMICAL PROPERTIES

Proteus Pro-Felt® Endura AIRdhesive is water-resistant and is resistant to watery solutions of salt, diluted non-oxidising acids and bases. Aliphatic and aromatic hydrocarbons, as well as chlorine hydrocarbons, oils and greases may loosen the product and should therefore be avoided.

For product specific chemical information, please refer to the material safety safety datasheet.

SIZE & DIMENSIONS

Product Name	Product Code	Roll Dimensions (m)	Weight (kg/m ²)
Proteus Pro-Felt® Endura AIRdhesive	FTESLAIR05	5.0 x 1.0	5.55

SHELF LIFE

Not applicable.

HANDLING

- The rolls are to be stored in an upright position, indoors in a dry and ventilated area, away from heat sources. It is recommended to store the product at temperatures above 0°C.
- Avoid the stacking of rolls and pallets for storage or transport as this may cause possible deformations which may compromise a perfect installation.
- For information on handling, please refer to the material safety datasheet.

TECHNICAL INFORMATION

Properties	Test Method		Declared Performance
Length	DIN EN 1848-1	m	≥ 5.0
Width	DIN EN 1848-1	m	≥ 1.0
Straightness	DIN EN 1848-1	mm/10 m	≤ 20
Mass per unit area	DIN EN 1849-1	kg/m ²	≥ 5.55
Thickness	DIN EN 1849-1	mm	≥ 4.50
Water tightness at 200 kPa test pressure	DIN EN 1928 Method B	-	passed
Tensile properties: maximum tensile force	DIN EN 12311-1	N/50mm	≥ 1000/1000
Tensile properties: elongation	DIN EN 12311-1	%	≥ 30/30
Dimensional stability	DIN EN 1107-1	%	≤ 0.3
Flexibility at low temperatures	DIN EN 1109	° C	≤ - 35
Flow resistance at elevated temperatures	DIN EN 1110	° C	≥ + 120
Reaction to fire	DIN EN 11925-2	-	Class E according to DIN EN 13501-1

ADDITIONAL INFORMATION

KEY FEATURES

- Dual application adhered /mechanically fastened to suitable substrates
- Provides a completely flame-free waterproofing solution where required
- Incorporates graphite technology, actively preventing spread of flames on roof
- Robust single layer solution
- Exceptional low temperature flexibility at -35°C
- Life expectancy in excess of 35 years

QUALITY ASSURANCE

Proteus Pro-Felt® Endura AIRdhesive is manufactured following ISO 9001: 2008 Quality Management System and Environmental Management System approved to ISO 14001: 2004.

CODES OF PRACTICE & STANDARDS

1. 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.

2. The works shall be carried out in accordance with the requirements of;

- BS 6229:2018 - Flat roofs with continuously supported flexible waterproof coverings -Code of practice.
- BS 8217:2005 - Reinforced bitumen membranes for roofing Code of practice.
- BS 8000-0:2014 - Workmanship on construction sites - Introduction and general principles.
- BS 8000-4:1989 - Workmanship on building sites - Code of practice for waterproofing.

(continued on page below)

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- GRO Green Roof Code of Best Practice - Latest Edition.
- LRWA Design Guide for Specifiers - Latest Issue.
- LRWA Hot Melt Code of Practice - Latest Edition.

- Please refer to Proteus Waterproofing's Technical department for project specifications.

OPERATION

- For professional use only.

SAFETY GUIDANCE

- Use as per Proteus Waterproofing installation instructions/guidance.
- For safety information, please refer to the material safety datasheet.

LIMITATIONS OF USE

- Not applicable.

MAINTENANCE FOR WATERPROOFING

1. A flat roof should be inspected at least twice yearly; in autumn to ensure it is clear of leaves, dirt and debris, outlets are not blocked and the roof is free draining; in spring to discover and rectify any damage due to weather. Green, blue and other specialist roofs should be inspected in accordance with the designer's original inspection plan.
2. Inspections should include the following elements:
 - 2.1. Examination of ceilings for signs of water penetration or condensation followed by examination of external walls, eaves and soffits for signs of movement;
 - 2.2. The roof should then be inspected for any signs of damage to, or displacement of, the individual layers of construction including, as appropriate, the waterproofing layer, the thermal insulation, the WFRL, the surface protection and flashings;
 - 2.3. The location and extent of any build-up of leaves, moss, plants or debris should be recorded; and
 - 2.4. The mountings of roof top installations such as safety barriers, fall arrest posts, harness bolts and satellite dishes should be examined to ensure their attachment remains waterproof.
3. Maintenance of a flat roof should involve:
 - 3.1. Removal of all accumulated leaves, dirt and debris;
 - 3.2. Clearance of rainwater outlets, downpipes and gutters;
 - 3.3. Replacement of any surface protection which has been dislodged or removed; and
 - 3.4. Cleaning of vents to the underside of a cold roof.
4. Repair/Renewal:

Should inspection discover the need for repair or replacement of any part of the roof, the work should be undertaken as soon as possible but only after appraisal of the original roof design and assessment of the need for modification or improvement. Repairs should be undertaken using materials and techniques compatible with the original work and, if still under an original guarantee, by the original installer. If it is decided to renew part or all of a flat roof, a full assessment of the design should first be undertaken in accordance with Clauses 4 to 6 of **BS6229:2018**. All works of inspection, repair and renewal should be recorded in the owner's building information manual.

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ADDITIONAL MAINTENANCE REQUIREMENTS

- No additional requirements. See information above.

GUARANTEES

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

DISPOSAL

For information on disposal and environmental hazards, please refer to section 13 of the material safety datasheet.

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