



## PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Proteus Hot Melt® Anti-Root Sanded Capsheet

**PRODUCT TYPE:** Waterproofing Membrane

**PRODUCT/SKU CODE:** FHMCSPAR10

**PRODUCT DATASHEET REFERENCE:** TDS\_FHMCSPAR10\_Proteus Hot Melt® Anti-Root Sanded Capsheet\_020523

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

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## PRODUCT DESCRIPTION

Proteus Hot Melt® Anti-Root Sanded Capsheet is a highly durable polyester reinforced elasto-plastomeric bitumen membrane, used as the finishing layer of the Proteus Hot Melt® System with anti-root properties for living green roofs, blue attenuated roofs, mixed landscape podium areas and other similar applications.

## PREPARATION & APPLICATION

### SURFACE PREPARATION

Prior to the application, ensure the substrate is structurally sound, free of surface laitance, oils, grease, dirt, moss, lichen and loose material.

Surfaces must be free of sharp projections and mechanical fixings must be well driven to prevent damage to the membrane.

Surfaces must be primed and left to dry completely prior to the application of the waterproofing.

### APPLICATION

Apply Proteus Hot Melt® Anti-Root Sanded Capsheet with Proteus Hot Melt® Compound over the primed deck and loose-laid Proteus Hot Melt Force by the pour and roll method of application detailed in BS 8217:2005.

Also refer to the Proteus Hot Melt® Manual and the current agrément certificate for further guidance.

Side laps should be a minimum of 75mm, with end laps a minimum of 100mm.

All laps should be checked for security during application.

End laps should also be offset.

## MATERIAL

|                              |  |
|------------------------------|--|
| <b>Reinforcement:</b>        | Polyester  |
| <b>Compound:</b>             | Elasto-plastomeric polymer bitumen membrane (APP) + anti root additive |
| <b>Upper Finish:</b>         | Sand   |
| <b>Lower Finish:</b>         | Polypropylene mat  |
| <b>Intended Use:</b>         | Basement / Under Heavy Protection / Roof Gardens                       |
| <b>Application Method:</b>   | Torch / Glue / Hot Air   |
| <b>CE Certification No.:</b> | CE0958-UKCA012   |

## WEIGHT

50kg per roll

## FINISH & COLOUR

Upper Finish: Sand

Colour: Black

## 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

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

## SIZE & DIMENSIONS

| Product                                     | Roll Size | Weight Kg/m <sup>2</sup> | Thickness mm | Square Metres per Pallet | EN Standards |
|---|-----------|--------------------------|--------------|--------------------------|--------------|
| Proteus Hot Melt® Anti-Root Sanded Capsheet | 10m x 1m  | -                        | 4            | 200                      | EN 13707     |

## 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

| Characteristics                                       | Testing Method | M.U.   | Tolerance | Value   |
|---|----------------|--------|-----------|---------|
| Thickness   | EN 1849-1      | mm     | MDV ± 5%  | 4       |
| Visible Defects                                       | EN 1850-1      |        |           | No      |
| Straightness  | EN 1848-1      | mm/10m |           | < 20    |
| Cold Flexibility                                      | EN 1109        | °C     | MLV       | -10     |
| Flow Resistance                                       | EN 1110        | °C     | MLV       | +120    |
| Flow Resistance After Ageing                          | EN 1296        | °C     | MDV -10°C | +110    |
| Joint Strength (shear resistance)                     | EN 12317-1     | N/50mm | MDV ± 20% | 600/400 |
| Maximum Tensile Strength (L/T)                        | EN 12311-1     | N/50mm | MDV ± 20% | 700/500 |
| Elongation (L/T)                                      | EN 12311-1     | %      | MDV ± 15  | 40/40   |
| Resistance to Tearing (L/T)                           | EN 12310-1     | N      | MDV ± 30% | 150/150 |
| Resistance to Static Loading                          | EN 12730       | Kg     | MLV       | 15      |
| Resistance to Impact                                  | EN 12691       | mm     | MLV       | 1000    |
| Dimensional Stability                                 | EN 1107-1      | %      | MLV       | -0,3    |
| External Fire Performance                             | EN 13501-5     |        |           | F ROOF  |
| Reaction to Fire                                      | EN 13501-1     |        |           | F       |
| Watertightness  | EN 1928        | kPa    |           | 60      |
| Watertightness After Artificial Ageing                | EN 1296        | kPa    |           | 60      |
| Resistance to Root Penetration<br>FLL Report no 21/06 | EN 13948       |        |           | Pass    |

## ADDITIONAL INFORMATION

### PRODUCT KEY FEATURES:

- Good resistance to puncturing
- Good mechanical performance
- Resistance against the penetration of roots

## 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.
- BS8000-4:1989 - Workmanship on building sites - Code of practice for waterproofing.
- 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.

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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.

## ADDITIONAL MAINTENANCE REQUIREMENTS

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- No additional requirements. See information above.

## GUARANTEES

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

## DISPOSAL

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