

TECHNICAL DATA SHEET

100gsm Waterproof Breathable Wall Membrane / WRB

|                 |                         |                    |                     |
|-----------------|-------------------------|--------------------|---------------------|
| Document No.    | KOS-TDS-WM100-2026      | Revision           | 00                  |
| Issue date      | 22 August 2026          | Customer / project | SipHouse evaluation |
| Document status | OFFICIAL CONTROLLED TDS | Approval status    | APPROVED FOR ISSUE  |

|               |                                                                               |
|---------------|-------------------------------------------------------------------------------|
| Product name  | 100gsm Waterproof Breathable Wall Membrane                                    |
| Product type  | Flexible wall underlay / WRB                                                  |
| Construction  | 3-layer PP nonwoven / breathable film / PP nonwoven                           |
| Nominal mass  | 100 g/m <sup>2</sup>                                                          |
| Standard roll | 1.50 m × 50 m (75 m <sup>2</sup> )                                            |
| Colour        | Grey / red; customisable                                                      |
| Primary use   | External walls, timber-frame walls, ventilated facades and PVC siding systems |
| OEM printing  | Available                                                                     |
| Manufacturing | China and Indonesia                                                           |

1. Product Description

KOSITE 100gsm Waterproof Breathable Wall Membrane is a three-layer polypropylene WRB intended for external walls, timber-frame construction, ventilated facades and siding systems. It is designed to help resist wind-driven rain and external air movement while allowing water vapour from the wall assembly to escape.

2. Key Features

- Helps resist rainwater and external air infiltration
- High vapour permeability to support outward drying of wall assemblies
- Suitable for residential and commercial external-wall applications
- Compatible with timber-frame walls, ventilated facades and PVC siding systems
- OEM colour, printing, roll size and packaging options available

3. Technical Properties

| Property                     | Test method / reference      | Declared value               | Tolerance / class | Status / remarks                |
|------------------------------|------------------------------|------------------------------|-------------------|---------------------------------|
| Mass per unit area           | EN 1849-2                    | 100 g/m <sup>2</sup>         | ±5%               | Nominal                         |
| Roll width                   | EN 1848-2                    | 1.50 m                       | Nominal           | Standard roll width             |
| Roll length                  | Internal measurement         | 50 m                         | Nominal           | Standard roll length            |
| Roll area                    | Calculated                   | 75 m <sup>2</sup>            | Nominal           | Based on 1.50 x 50 m            |
| Approx. roll weight          | Calculated                   | 7.5 kg                       | Indicative        | Based on nominal mass           |
| Water tightness              | EN 1928, Method A            | Pass                         | Class W1          | For EN 13859-2 wall application |
| Water vapour transmission    | EN ISO 12572                 | ≥1,000 g/m <sup>2</sup> /24h | Minimum           | Declared specification          |
| Water vapour resistance (Sd) | EN ISO 12572                 | Sd ≤ 0.012 m                 | Maximum           | Declared specification          |
| Tensile strength - MD        | EN 12311-2                   | 150 N/50 mm<br>±15%          | Measured          | Measured value                  |
| Tensile strength - TD        | EN 12311-2                   | 100 N/50 mm<br>±15%          | Measured          | Measured value                  |
| Tear resistance - MD         | EN 12310-1                   | 70 N/20 mm                   | ±15%              | Declared specification          |
| Tear resistance - TD         | EN 12310-1                   | 60 N/20 mm                   | ±15%              | Declared specification          |
| Hydrostatic head             | EN 20811                     | ≥200 cm water column         | Minimum           | Declared specification          |
| UV exposure                  | Internal exposure assessment | 4 months                     | Declared          | Maximum recommended exposure    |

#### 4. Application and Installation

- Install on the exterior side of the wall sheathing or insulation, with the printed side facing outward unless otherwise specified.
- Lay horizontally or vertically according to the wall design and local installation practice.
- Provide adequate overlaps and seal joints with compatible WRB tape to support continuity of the water- and air-control layer.
- Seal around windows, doors, penetrations, corners and transitions with compatible accessories.
- This product is intended for wall applications and is not declared as a roofing underlay in this document.

#### 5. Packaging and Storage

Standard roll: 1.50 m x 50 m (75 m<sup>2</sup>; approximately 7.5 kg based on nominal mass). Individually wrapped; export pallet packing available. Store upright, dry and covered, protected from sunlight, UV, heat, moisture and physical damage.

#### 6. Technical Status and Compliance

This Official Controlled TDS is issued by PT KOSITE NEW MATERIALS for the KOSITE 100gsm Waterproof Breathable Wall Membrane. The measured tensile strength is 150 N/50 mm  $\pm 15\%$  in the machine direction (MD) and 100 N/50 mm  $\pm 15\%$  in the transverse direction (TD). Values in this document are declared product specifications subject to the stated tolerances.

The product specification is prepared with reference to EN 13859-2 wall-underlay applications. No reaction-to-fire classification is declared in this document.

#### 7. Document Control

| Control role | Responsible function | Name / signature | Date |
|--------------|----------------------|------------------|------|
| Prepared by  | Technical Department |                  |      |
| Reviewed by  | Quality Department   |                  |      |
| Approved by  | Authorised Signatory |                  |      |

#### Revision History

| Revision | Issue date     | Description                                            | Approval status    |
|----------|----------------|--------------------------------------------------------|--------------------|
| 00       | 22 August 2026 | Initial official controlled issue for customer release | APPROVED FOR ISSUE |