



VYBREATH-VP

Nonwoven Breathable Membranes

DESCRIPTION

VYBREATH-VP are advanced breathable membranes designed to enhance the performance of building envelope systems by allowing water vapor to escape while providing a protective barrier against the infiltration of water. VYBREATH-VP FR offering additional fire retardant (FR) properties for enhanced safety in buildings requiring stringent fire safety standards.

These membranes are ideal for applications in roofing, walls, and floors where breathability is required to manage moisture and ensure long-term durability.

BENEFITS

- **Breathable 3-Layer Structure**

Designed to allow water vapor to escape, preventing condensation within building assemblies while protecting against water penetration.

- **Fire Retardant Version (VYBREATH VP FR)**

Offers fire resistance for use in applications where fire safety is a critical requirement.

- **Excellent Mechanical Strength**

Strong resistance to tearing and puncturing, ensuring durability during installation and throughout the service life of the building.

- **UV and Weather Resistance**

Suitable for short-term (six months) exposure to environmental elements.

- **Lightweight and Flexible**

Easy to install with excellent conformability to complex building surfaces

APPLICATIONS

- **Roofing Systems**

Breathable membrane layer in roofing systems, especially for pitched roofs where moisture control is essential.

- **Wall Systems**

Used in external wall applications, particularly in timber-frame and steel-frame buildings, to allow moisture vapor to escape while preventing water ingress.

- **Facades and Cladding**

For applications where both breathability and protection against water are required.

- **Basement & Underfloor Systems**

Providing moisture control in basement walls and underfloor systems, preventing trapped moisture and ensuring dry, healthy indoor environments.

INSTALLATION

1. **Surface Preparation**

Ensure the substrate is clean, dry, and free from any sharp objects, dust, or debris.

2. **Application**

Unroll the membrane over the prepared surface, aligning it properly. Ensure proper overlap of seams (minimum 50 mm) and ensure that it is securely fastened.

3. **Sealing**

Use compatible tapes (e.g., butyl tape or adhesive) to seal seams and ensure water tightness at overlaps, penetrations, and edges.

4. **Protection**

For long-term exposure, ensure that the membrane is not exposed to UV for extended periods before the final cladding or roofing is applied.



STORAGE & SHELF LIFE

- Store in a dry, cool place, away from direct sunlight and extreme temperatures. Avoid stacking them excessively.
- 12 months when stored under proper conditions.

DIMENSIONS & PACKAGING

Parameter	Value
Density	80~220 g/m ²
Width	1500 mm
Length	50 m
Color (surface)	White or customized
Packaging	Rolls

TECHNICAL DATA

Property	Value(100g/m2)	Value(220g/m2)	Test Method
Maximum tensile force, MD/CD (N/50mm)	≥ 130/80	≥ 260/200	EN 12311-2:2000
Elongation at braeak, MD/CD (%)	≥ 30/30	≥ 30/30	EN 12311-2:2000
Watertightness	1000mm water column, no leakage for 2 hours	1500mm water column, no leakage for 2 hours	EN 1928:2000
Tear strength (Nail shank), MD/CD (N)	≥ 50/50	≥ 160/160	EN 12310-1:1999
Cold bending	-30°C, no crack	-30°C, no crack	EN 495-5:2000
Water vapor permeance, 23°C, 90% humidity difference (g/m ² ,24h)	≥ 1000	≥ 400	ISO 12572: 2001

