Brane® VHP is a Very High Permeance (VHP), triple-layer Light Duty wall wrap, designed for use behind fibre cement and timber cladding in timber and steel framed buildings, and in double brick and brick veneer drained cavity wall systems. When combined with taping of overlaps, Brane® VHP will form an airtight wrap, reducing energy loss from the building envelope.

Classified as High Water Barrier, Low Vapour Barrier, Brane® VHP permits very high levels of condensation absorption and diffusion, allowing water vapour to escape from within the wall structure while restricting the ingress of liquid moisture. Brane® VHP is non-reactive so may be used in conjunction with treated timbers or close to coastlines. It can also be effectively used as an air barrier in unlined areas such as attics.

Translucent  Non-perforated  Low flammability
Tear resistant  Easy to install  2.74m width for quicker installation

Construction

Application
Brane® VHP is used as a wall wrap behind fibre cement and timber cladding in most Australian climates.

NOTE: It is NOT recommended for this application in the humid tropics; select from our range of Medium Vapour Barrier products instead.

Brane® VHP can be used as wall wrap in brick veneer systems; however, Silverbrane® HP High Permeance reflective membrane is the preferred membrane for brick veneer systems outside the humid tropics.

Brane® VHP is available in a 1370 mm roll, and a convenient 2740 mm roll that halves installation time and reduces the amount of air gaps and joins in the wall system. If installed behind non-absorbent claddings such as steel, provision should be given for adequate drainage of any trapped moisture.

Vapour Barrier Properties
The advanced product design of Brane® VHP ensures a very high Water Vapour Transmission (WVT) rate of 1584 grams per square metre per 24 hours under standard test conditions and a guaranteed High Water Barrier tested in accordance with AS/NZS 4200.1:1994 Pliable building membranes and underlays, Part 1: Materials. Ametalin classification is High Water Barrier, Very High Permeance, Low Vapour Barrier.

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>WATER VAPOUR TRANSMISSION RATE</td>
<td>1584 g/m²·24hr (23°C, 50% RH)</td>
</tr>
<tr>
<td>AMETALIN WVT CLASSIFICATION</td>
<td>Very High Vapour Permeance</td>
</tr>
<tr>
<td>VAPOUR RESISTANCE</td>
<td>0.08 MN·s/g</td>
</tr>
<tr>
<td>UV RESISTANCE</td>
<td>3 Months</td>
</tr>
</tbody>
</table>

High Water Barrier - Low Vapour Barrier

DECLARED TOTAL SYSTEM R-VALUES
The contribution of this product to the total R-value depends on installation and environmental conditions. The R-value will be reduced in the event of the accumulation of dust on upward facing surfaces and in those cavities that are ventilated.

L.C. / WEATHERBOARD WALL
with one layer of Brane® VHP + two layers of Pleated Silver Batts

L.C. / WEATHERBOARD WALL
with one layer of Brane® VHP + R2.5 Fibrous Batt

BRICK VENEER WALL
with one layer of Brane® VHP + two layers of Pleated Silver Batts
Classification

Brane® VHP classifications in accordance with AS/NZS 4200.1:1994

<table>
<thead>
<tr>
<th>PRODUCT</th>
<th>Brane® VHP</th>
<th>AS/NZS 4200.1:1994</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLAMMABILITY INDEX</td>
<td>AS 1530.2-1993</td>
<td>Low</td>
</tr>
<tr>
<td>DUTY</td>
<td>AS/NZS 4200.1:1994</td>
<td>Light *</td>
</tr>
<tr>
<td>RESISTANCE TO WATER PENETRATION</td>
<td>AS/NZS 4201.4:1994</td>
<td>High</td>
</tr>
<tr>
<td>VAPOUR BARRIER</td>
<td>ASTM E96</td>
<td>LOW, PROCEDURE B, WET CUP TEST Classification</td>
</tr>
<tr>
<td>MACHINE DIRECTION TENSILE STRENGTH</td>
<td>AS 1301.448s-91</td>
<td>8.6 kN/m Min 7.5 kN/m</td>
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<tr>
<td>LATERAL DIRECTION TENSILE STRENGTH</td>
<td>AS 1301.448s-91</td>
<td>6.9 kN/m Min 4.5 kN/m</td>
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<tr>
<td>MACHINE DIRECTION EDGE TEAR</td>
<td>TAPPI T-470 om-89</td>
<td>214 N Min 45 N</td>
</tr>
<tr>
<td>LATERAL DIRECTION EDGE TEAR</td>
<td>TAPPI T-470 om-89</td>
<td>117 N Min 45 N</td>
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<tr>
<td>BURST STRENGTH</td>
<td>AS 2001.2.19-1988</td>
<td>254 N 200 N</td>
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<tr>
<td>EMISSANCE</td>
<td>AS/NZS 4201.5</td>
<td>0.42 Value</td>
</tr>
<tr>
<td>CALCULATED REFLECTANCE</td>
<td></td>
<td>58%</td>
</tr>
</tbody>
</table>

* Based on minimum value for burst strength.

WATER VAPOUR TRANSMISSION RATE:
1584 g/m²·24hr (23°C, 50% RH)

AMETALIN CLASSIFICATION:
VERY HIGH PERMEANCE, LOW VAPOUR BARRIER

Handling and Storage

This product should be stored under cover in a clean, dry place in the pack provided. Do not bend or crush roll.

Dimensions

Brane® VHP is sold in sizes:
2740 mm x 30 m (82.2 m²)
1370 mm x 30 m (41.1 m²)

Specification Notes

When specifying, state the following:

Product Name: Brane® VHP

The pliable building membrane to be installed shall be Brane® VHP very high permeance wall wrap. Product is manufactured by Ametalin and shall be installed in accordance with AS/NZS 4200.2: 1994 Pliable Building Membranes and Underlays, Part 2: Installation Requirements.

Water Vapour Transmission (WVT): 1584 g/m²·24hr
Vapour Resistance: 0.08 MN·s/g
Vapour Barrier Classification: Low
Water Barrier Classification: High
Duty: Light in accordance with AS/NZS 4200.1:1994

Reflectivity


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The suitability of this product for any particular application should be determined in consultation with a qualified licensed engineer. For large projects with complex air-conditioning and condensation issues, designers may wish to contact our technical department. Amalgamated Metal Industries Pty. Ltd. reserves the right to amend product specifications without prior notice. Information provided is considered to be true and correct at the time of publication.

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Manufacturers of building membranes | insulation products | flexible packaging

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Health and Safety Information

Ametalin has assessed BRANE® VHP according to the criteria outlined in the National Occupational Health and Safety Commission (NOHSC):1008 (1998) and NOHSC: 1005 (1999). As a result of the assessment, this product is classified as non-hazardous according to the NOHSC criteria. To reduce risk of UV damage when installing this product, wear protective clothing, safety glasses and sunscreen, and work in the shade wherever practical. Take care when installing BRANE® VHP in windy conditions, as the wide width of the product can act as a sail.

Installation

BRANE® VHP should be installed in accordance with AS/NZS 4200.2:1994 Pliable Building Membranes and Underlays, Part 2: Installation Requirements.

GENERAL

BRANE® VHP should be installed horizontally as a continuous membrane by fixing to all framing members with the printed side facing out. BRANE® VHP should extend from the top plate to the bottom plate on concrete slabs or bearers in timber construction. Fixings should be galvanised clouts or staples for timber construction and tech screws for fastening to steel constructions. In high wind areas, it is recommended to install using non-rip caps on clouts, staples or tech screws. Horizontal, vertical and end overlaps must be 150 mm, with all top layers overlapping the outside of lower layers to prevent water ingress. Stagger any vertical overlaps.

Any damage made to BRANE® VHP during installation including holes and tears must be repaired. BRANE® VHP is not designed to withstand prolonged direct exposure to UV light and the elements. Outer cladding should be installed without delay.