

DuPont™ Tyvek® Supro

Class 4 Vapour permeable wall underlay

1,5 x 50 m



Tyvek®

High water vapour permeability

High water resistance

Air barrier for improved energy efficiency

Lightweight, flexible and easy to install

Excellent long-term performance and durability

Application: Pliable, permeable building underlays designed to assist in meeting the requirements of the Australian building codes board's National Construction Code (NCC).

Style Name:	2506B	
Trade name:	DuPont™ Tyvek® Supro	
Property	Test Method	DuPont™ Tyvek Supro (2506B) - nominal
Duty Classification	AS/NZS 4200.1	Light Wall
Vapour Permeance	ASTM E96-B	> 3.7 µg/N.s
Vapour Resistance	ASTM E96-B	< 0.27 MN.s/g
Vapour Control Classification	ASTM E96-B	Class 4 (low)
Emittance Category	Table 3, Section 5.3.3 AS/NZS 4200.1 2017	NN
Water Control Classification	AS/NZS 4201.4	Water Barrier
Surface Water Absorbency	AS/NZS 4201.6	Low
Resistance to dry delamination	AS/NZS 4201.1	Pass
Resistance to wet delamination	AS/NZS 4201.2	Pass
Moisture shrinkage	AS/NZS 4201.3	Pass
Electrical conductivity classification	AS/NZS 3100	Electrically Non-conductive
pH extract	AS/NZS 1301.412S	Pass
Folding endurance (MD)	AS/NZS 1301.423	Pass
Folding endurance (CD)	AS/NZS 1301.423	Pass
Tensile strength (MD)	AS 1301.448	6.3 kN/m
Tensile strength (CD)	AS 1301.448	5.0 kN/m
Edge tear strength (MD)	TAPPI T470	305 N
Edge tear strength (CD)	TAPPI T470	254 N
Burst strength	AS 2001.2.19	356 N
Flammability Classification	AS/NZS 1530.2 1993	Low ≤5
Air Control classification	AS2400.1:2017 Section A6	Air barrier
UV exposure	ASTM G154	120 days wall
Weight	-	148 gsm
Thickness	-	0.45 mm

DuPont de Nemours (Luxembourg) S.à.r.l.
L-2984 Luxembourg
Tel. : +352 3666 5885
E-mail : tyvek.construction@dupont.com



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Network Architectural

71 Marigold Street, Revesby NSW 2212 Australia

P: 02 8316 5000 | F: 02 9771 9911

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DuPont™ Tyvek® Supro

Class 4 Vapour permeable wall underlay

Width:	1500 mm
Length:	50 m
Area:	75 m ²
Weight:	11,1 kg
Style:	2506B
Mass per unit area:	148 g/m ²

Applications

DuPont™ Tyvek® Supro (2506B) is a class 4 vapour permeable synthetic wall underlay made by laminating a spun-bonded high-density polyethylene (HDPE) to a non-woven polypropylene sheet providing a strong weather resistant barrier with excellent water vapour permeability to assist in managing moisture in the wall cavity.

Tyvek® Supro has been designed for use as a wall underlay behind cladding systems in residential and commercial timber and steel framed buildings as a means to provide the building with a secondary weather barrier against water ingress and provide air barrier properties to improve effectiveness of bulk insulation.

The DuPont™ Tyvek® Supro Plus (2506B) product has an integrated tape system for ease of in-situ edge sealing.

Installation

Installation of Tyvek® Supro must be carried out by competent tradesperson with an understanding of permeable wall sarking installation. Installation must be carried out in accordance with the instructions below and other relevant technical literature as published by DuPont™.

- Always install wall sarking prior to cladding or window installation.
- Ensure that Tyvek® Supro is pulled taut and fixed to steel or timber framing with galvanised clouts, staples or self-taping screws at maximum 300mm centres.
- Run the product horizontally across the frames, leaving coverage of both the top plate and bottom plate.
- For horizontal laps, ensure there is a minimum of 150mm laps, and for vertical laps, ensure minimum of 150mm lap beyond a full stud span. Always install the underlay in a shingle fashion, ensuring the top layer is always over the lower layer. If vertical laps are taped, lap can be reduced to 50mm.
- Position laps over frame members.
- In a drained cavity situation, where studs are spaced greater than 450mm, support the sarking with polypropylene strapping to prevent the insulation from pushing the Tyvek® Supro against the back face of the cladding.
- Avoid leaving the wall sarking exposed beyond the cladding or within 100mm of finished ground level to prevent wicking of moisture.
- Repair any rips or tears with DuPont™ Tyvek® Tape.
- Behind masonry brick veneer, ensure that the brick ties are fastened into the face of the studs without ripping or tearing the wall sarking.
- Tyvek® Supro must not be exposed to the elements beyond 120 days.
- Tyvek® Supro must be separated from flues, chimneys and fireplaces minimum of 50mm and in accordance with the requirements of BCA for the protection of combustible materials.
- Allow any LOSP (light organic solvent preservative) to flash off for 2 weeks prior to installation of the Tyvek® Supro.
- Tyvek® Supro cannot be used as a roof sarking.
- When Tyvek® Supro is installed in an external wall, the product must be located on the exterior side of the primary insulation layer of wall assemblies that form part of the external envelope of a building. This is to ensure compliance with (i) Clause F8D3 (1) & (2) of NCC2022 Volume 1 and (ii) Clause H4D9, Part 10.8.1 (1) and (2) of NCC2022 Volume 2.

Optional best practice

- When installing window flashing tape; position the wall sarking over openings and cut out window hole at 45° from each corner. Wrap into opening and staple or tape onto inside face of the framing. Finish with DuPont™ Flashing Tape or DuPont™ FlexWrapNF® along the bottom sill and up 200mm each vertical face. Add 300mm vertical and horizontal pieces in both top corners, positioning the flashing tape 150mm horizontal, and 150mm vertical.
- Tape vertical and horizontal laps with DuPont™ Tyvek® Tape to maintain a good air barrier seal.
- Seal around all penetrations with DuPont™ Flashing Tape or DuPont silicon or similar compatible tapes.
- Pre-prime cedar and other timbers claddings prior to installation over Tyvek® Supro
- A second layer of Tyvek® Supro, installed shingle style, can be added above window and door head flashings.

Treated timber

Condensation Management

Ensure that the building envelope design and construction adhere to sound condensation management principles, minimizing moisture ingress and maximizing drying capabilities of wall and roof cavities. See AS 4200.2:2017 Appendix C.

Further Information

More information about DuPont™ Tyvek® Supro can be viewed or downloaded at: www.building.dupont.com

DuPont Shelter Solutions
Australia
Phone: 02 9923 6111

Test results shown represent roll averages. Individual results may vary either above or below averages due to normal manufacturing variations while continuing to meet product specifications.

- (1) Do not use this product for any application not detailed in the technical literature.
- (2) Recommendations and advice regarding the use of this product are to be taken as a guide only. The purchaser should ascertain the suitability of this product for the particular end-use situation intended and when used in conjunction with other products.
- (3) DuPont™ retains the right to change installation instructions without prior notification
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