

# DuPont™ Tyvek® Supro

## Vapour permeable wall underlay

- ✓ Suitable for Commercial applications
- ✓ High Tensile strength and vapour permeability
- ✓ NCC Compliant
- ✓ Class 4 vapour permeable membrane in accordance with AS4200.1
- ✓ AS 1530.2 compliant
- ✓ CodeMark certified
- ✓ Lightweight and easy to handle

DuPont™ Tyvek® Supro is a Class 4 vapour permeable membrane that is designed to help keep air and water out of buildings while letting water vapour escape. Tyvek® Supro has been designed for use as a wall underlay behind cladding

systems in commercial and residential 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 the effectiveness of bulk insulation.

Tyvek® Supro provides excellent tensile and tear strength and good wet strength combined with a superior UV resistance of 120 days. Builders choose DuPont™ Tyvek® Supro because it withstands the rigours of the construction site and offers an easy solution to protect the buildings from the harmful effects of the elements once construction is completed.

Tyvek® Supro is CodeMark Certified, NCC compliant and satisfies the requirements of the Building Code of Australia for buildings of class 1,2 to 9 and 10 of Volume One and Two. Tyvek® Supro can be used where non-combustible materials are required including on external walls of buildings of Type A and B construction.

### ■ Product Specifications

| Style Name:                            | 2506B                      |  |
|--|----------------------------|--|
| Trade name:                            | DuPont™ Tyvek® Supro       |  |
| Property                               | Test Method                | DuPont™ Tyvek® Supro (2506B) - nominal |
| Duty classification                    | Table 1 AS/NZS 4200.1:2017 | Light wall                             |
| Vapour permeability                    | ASTM E96-B                 | > 3.5 µg/N.s                           |
| Vapour resistance                      | ASTM E96-B                 | < 0.3 MN.s/g                           |
| Vapour control classification          | ASTM E96-B                 | Class 4                                |
| Emittance classification               | AS/NZS 4201.5              | Non-reflective                         |
| 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              | 100 %                                  |
| Electrical conductivity classification | AS/NZS 3100                | Pass                                   |
| 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.S              | 6.3 kN/m                               |
| Tensile strength (CD)                  | AS 1301.448.S              | 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 index                     | AS 1530.2                  | ≤5                                     |
| Air control classification             | BS 6538.3                  | Air barrier                            |
| UV exposure                            | ASTM G154                  | 120 days wall                          |
| Weight                                 | -                          | 125 gsm                                |
| Thickness                              | -                          | 0.45 mm                                |

## ■ Product Details

| Product Code | Name        | Width (mm) | Length (m) | m <sup>2</sup> Per Roll | Weight Per Roll (kg) | Style | Mass Per Unit Area: |
|--------------|-------------|------------|------------|-------------------------|----------------------|-------|---------------------|
| TYVEKSUPRO   | Tyvek®Supro | 1500mm     | 50         | 75m <sup>2</sup>        | 11.1kg               | 250B  | 148g/m <sup>2</sup> |

## ■ 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.

DuPont™ 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 DuPont™ 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 DuPont™ 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 DuPont™ 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.
- DuPont™ Tyvek® Supro must not be exposed to the elements beyond 120 days.
- DuPont™ 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.

- DuPont™ Tyvek® Supro cannot be used as a roof sarking.
- When DuPont™ 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 Clause 3.8.7.2 (a) (iv) of the NCC – 2019 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 DuPont™ Tyvek® Supro, installed shingle style, can be added above window and door head flashings.

## Treated timber

If installed over LOSP treated timber, ensure that timber is dry and solvent free.

## ■ 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](http://www.building.dupont.com)

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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.
4. All claims about this product are subject to any variation caused by normal manufacturing process and tolerances.
5. The liability of DuPont and its employees and agents for any errors or omissions in this literature or otherwise in relation to the product is limited to the fullest extent permitted by law. Except where the consumer acquires the goods for the purposes of a business, any rights a consumer may have under the Consumer Guarantees Act are not affected.

