DuPont™ Tyvek® Supro Roof Underlay

CertMark International
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CMA-CM40146

Introducing a new Roof Underlay to New Zealand: DuPont™ Tyvek® Supro

Drawing from more than 20 years international manufacturing experience in the field of construction, DuPont™ Tyvek® Supro is a roof underlay that has been proven worldwide to be durable and to perform in extreme environments.

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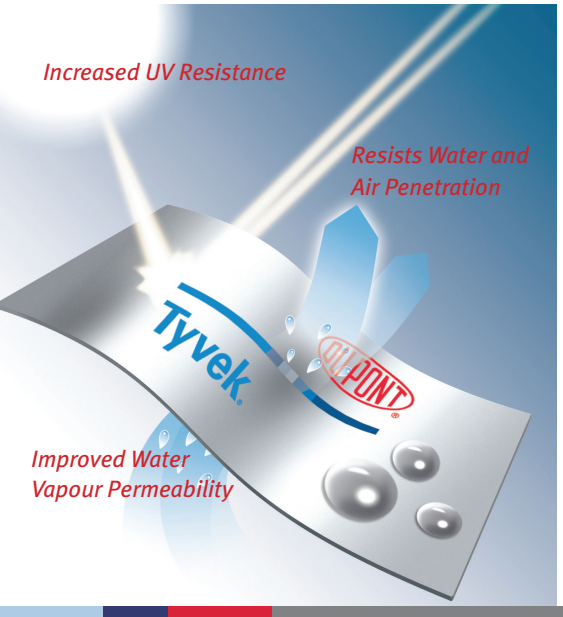
The Importance of a Good Quality Underlay

An underlay is a key component of the roofing structure, and provides an important element in the weather tightness of a roof cladding system. The underlay acts as a secondary barrier to water ingress from the external environment while also helping to control internally generated moisture. Their function in terms of building durability is important and their on-going performance needs to be preserved to guarantee the life of the building.

An underlay needs to:

- Resist water and air penetration from above
- Facilitate water vapour transmission from within by retaining and releasing condensed water as required
- Protect insulation – thus promoting energy efficiency



The long term performance of any underlay (kraft or synthetic) can be highly dependent on the environmental conditions it is exposed to within the roof cavity. Condensation and moisture related issues can be managed by careful consideration of the roof design, ventilation used and climatic conditions of the area. Refer to the DuPont™ Tyvek® Supro technical datasheet for specific requirements.

DuPont™ Tyvek® Supro – a proven history of performance

Released in 1990, DuPont™ Tyvek® Supro is an original synthetic underlay and has a globally proven history of performance of over 20 years. DuPont™ Tyvek® Supro is part of the Tyvek® range, which has continued to set the standard globally for building membranes.

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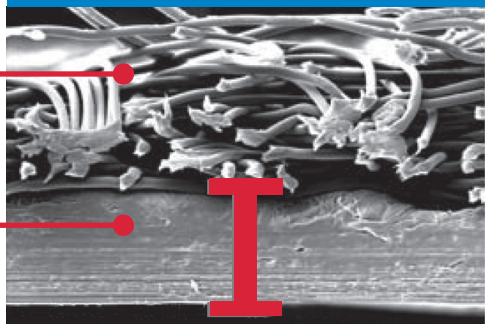
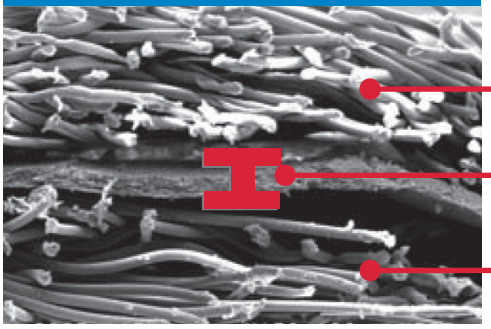
DuPont™ Tyvek® Supro..
it's all about the Functional Layer

Synthetic underlays are made from a combination of a functional layer and either one or two spun bond protective layers. It is the quality and thickness of the functional layer which determines the wind proofing, waterproofing and vapour breathability attributes of the product.

Cross section of Dupont™ Tyvek® Supro



Cross section of typical multi-layer underlay



Dupont™ Tyvek® Supro offers three distinct advantages over other synthetic products.

1. Unique Structure is 7 Times Thicker for Improved Performance

The functional layer is what gives a synthetic membrane its performance characteristics. Dupont™ Tyvek's® Supro functional layer is thicker than other synthetics and its unique structure creates a maze of fibres that provide a barrier to liquid water while still being permeable to water vapour. Dupont™ Tyvek® Supro's high quality functional layer is up to 7 times thicker than typical synthetics and is key to the durability and effectiveness of the membrane as a whole.

2. Protection From Handling and Installation Damage

Due to the thickness and quality of the functional layer, Dupont™ Tyvek® Supro only uses a single layer of spun-bond on its upper surface. The combination of a thicker functional layer and the spun bond upper provides a robust yet high performing product, even after the rigours of construction.

3. Proven Resistance to UV and Heat, Providing Long Term Durability.

Due to its thicker functional layer and unique additives, Dupont™ Tyvek® Supro is perfectly suited to withstand exposure to UV in our harsh environment and to resist the high temperature extremes experienced when in contact with the roof cladding.

Features and Benefits

Design Performance
Functional layer of high density polyethylene (HDPE) interwoven fibres – provides a robust, durable and UV resistant underlay to stand up to the rigours of construction.
Vapour permeable – allows vapour to pass through the membrane minimising the build-up of condensation.
Synthetic composition – can be exposed to adverse conditions during installation without affecting future durability or performance.
Manufactured by DuPont – proven 20 year history of performance.
Flame retardant – will not support combustion.
Installation Benefits
Self-supporting synthetic roof underlay – can be installed without support for spans up to 1200mm.
1.5m wide – Covers more area per sheet with less number of overlaps.
Synthetic construction – Allowing no maximum run length on installation.

DuPont™ Tyvek® Supro Application Guide

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Cladding Type	Allowable Usage as per E2/AS1	Notes
Concrete/Clay Tile	✓	All pitches and applications
Metal Tile	✓	All pitches and applications
Long Run Metal Roof/ All Profiles	✓	Residential Applications: All pitches ≥3° Commercial Applications: All pitches ≥3°
Membrane Roofing	X	DuPont™ Tyvek® Supro not recommended for membrane roofing applications.

Product Specification

Description	Roll Size	Area	GSM
DuPont™ Tyvek® Supro	1500mm x 50m	75m²	140gsm

Tyvek® Supro has been assessed by CodeMark™ as a roof underlay for both commercial and residential applications. For information and product data sheets visit www.weatherbarriersystems.com or call 0800 100 532

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