



Purpose

UNI PLUS is a fire retardant, non-woven, absorbent, water-resistant, synthetic wall underlay giving up to 90 days of UV protection. Eliminates expensive delays due to hold-ups on cladding or bad weather. Work on the inside for up to 90 days before cladding is installed. Once installed, UNI PLUS works as a secondary line of defense against moisture over the life of the building, whilst still being highly breathable, passing vapour from the inside of the building out. A fraction of the cost of rigid air barriers (materials and labour) whilst having most of the benefits.

- › UNI PLUS has fire retardant qualities
- › Much thicker and stronger than standard building paper/wrap
- › Quick and easy installation
- › Light wall duty – UNI
- › Emittance – Infra red non reflective
- › Water barrier
- › Vapour permeability – Class 4 vapour permeable
- › Low flammability

Description

UNI PLUS is a non-woven, absorbent, vapour-permeable, water-resistant, fire-retardant, 180 GSM synthetic wall underlay. It comprises three polypropylene layers: two outer layers of non-woven polypropylene with a middle layer of a functional-technical film.

It is supplied in 2.74 m x 18.25 m rolls (50 m²) coloured blue with a white underside unless an alternative colour is requested.

Products for use with the wraps to complete the system are also supplied, including:

- › UNI Fasteners
- › UNI Nail Pack – for use with the UNI Gun
- › Flashing Tape – 40 Below Platinum and 40 Below Flex
- › Penetration Seals
- › Corner Guards



Scope of Use and Limitations

- › In locations with a wind design pressure (ULS) of up to and including 4.6 kPa
- › For commercial and residential construction.
- › Designed for use with all cladding systems.
- › Performs on timber and steel framed buildings.
- › As a temporary cladding for up to 90 days.
- › With buildings of all building heights, up to the permissible wind design pressure of 4.6 kPa.
- › With cladding and joinery that complies with the relevant provisions of the NCC for the site and location.
- › Suitable for use as a non-rigid backing for stucco plaster.
- › UNI® PLUS is suitable as an air barrier on walls that are not lined.
- › For vertical use only, not suitable as a roof underlay.
- › UNI PLUS (or any flexible air barrier) cannot provide seismic (bracing or racking), and fire resistance.
- › For lightweight steel, a thermal wrap must be installed.
- › Where a building height is greater than 10 m and upper levels contain sleeping uses or other property the external wall must be subject to specific fire engineering.
- › UNI PLUS must be covered within 90 days from installation.

UNI PLUS has a flammability index of less than 5 and therefore an AS 4200.1 flammability index of Low. However, in bushfire prone areas the designer and/or installer must establish compliance with AS 3959.

NCC Compliance

If designed, installed and maintained in accordance with all Masons requirements, the range of wraps covered by this statement will comply with or contribute to compliance with the following performance claims:

NCC (2020) PROVISIONS & STATE OR TERRITORY VARIATIONS

- › Suitable for installation on the exterior side of the building frame of all construction types in NCC Climate Zones 2 to 8



	Volume 1	Volume 2
PERFORMANCE REQUIREMENTS	F1P1 Weatherproofing - contributes to this performance	H2P2 Weatherproofing - contributes to this performance
	F8P1 Condensation and water vapour management - contributes to this performance	H4P7 Condensation and water vapour management - contributes to this performance
	G5P1 Bushfire resistance - contributes to this performance	H7P5.1 Bushfire resistance - contributes to this performance
DEEMED TO SATISFY PROVISIONS(S)	C2D10 (6)(f) - Non-combustible building elements - Sarking type elements	H3D4(6)(f) General concession - non-combustible materials -Sarking-type materials.
	F1D11 Sarking	H4D9 Pliable membranes
	F8D3 Pliable building membrane	
	G5D2 Protection - contributes to this performance	
STATE OR TERRITORY VARIATION(S)	F8P1 Condensation and water vapour management: Tas - contributes to this performance.	H7P5 Buildings in bushfire prone areas: Tas - contributes to this performance
	G5P1 Bushfire resistance: NSW & QLD - contributes to this performance	
	G5D2 Protection: NSW - contributes to this performance.	

References

Scion. [n.d.]. Ball burst & emittance test results to AS 4200.1.

Scion [03/2022]. Evaluation of SP100 to AS 4200.1. Report no. 45777506

Scion [03/2022]. Evaluation of SP180 to AS 4200.1. Report no. 45777474

Standards NZ. [n.d.] AS 4200.1:2017. Pliable building membranes and underlays. Part 1: Materials.

Standards Australia [2017] AS 4200.1. Pliable building membranes and underlays, Part 1: Materials; and AS 4200.2: Pliable building membranes and underlays, Part 2: Installation.



Material Characteristics Table

Characteristic	AS 4200.1	UNI PLUS
Appearance		
Dry delamination	≤ 3 mm	pass
Wet delamination	≤ 3 mm	pass
Moisture shrinkage (both directions)	≤ 0.5%	≤ 0.5%
Folding endurance	≥ 2.00 log10 (md) ≥ 1.70 log10 (cd)	≥ 2.00 log10 (md) ≥ 1.70 log10 (cd)
Tensile strength (md) (kN/m)	Extra heavy ≥13 Heavy ≥12.5 Medium ≥9.5 Light ≥7.5 Extra light ≥6.0 Light wall n/a	Light wall
Tensile strength (ld) (kN/m)	Extra heavy ≥10.5 Heavy ≥7.5 Medium ≥6.0 Light ≥4.5 Extra light ≥3.5 Light wall n/a	4.62 - 4.80
Edge tear resistance both directions (N)	Extra heavy ≥ 90 Heavy ≥ 80 Medium ≥ 65 Light ≥45 Extra light ≥30 Light wall ≥45	322 - 341 (md) 236 - 244 (cd)



Material Characteristics Table

Characteristic	AS 4200.1	UNI PLUS
Burst Strength	≥ 200 N	Light wall
Emittance classification	IR Reflective ≤ 0.05 IR Semi reflective $>0.05 \times \leq 0.15$ IR non-reflective >0.15	IR NR
VCM classification Vapour permeance $\mu\text{g}/\text{N.s}$	Classification	Class 4
Water barrier Classification 100mm	Barrier - passes 4201 Non water barrier - fails	Pass
Flammability	Low ≤ 5 High > 5	Low
Resistance to UV exposure	85% of tensile or burst strength after 42 days	90 days
Surface water Absorbency g/m^2	≥ 100	Absorbent
Air barrier $\text{MN.s}/\text{m}^3$	≥ 0.1	Air barrier
Thickness	< 1.0 mm	< 1.0 mm

Note: Characteristic assumption based on tested performance of other wraps.

All wraps manufactured by same company, using same products, to the same standardised processes.

ADMIN DETAILS

Company name	Mason Aust Ltd
Name of product	UNI PLUS Flexible Building Wrap
ABN	80 659 670 201
Email address	info@masonsau.com.au
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