MASONS BARRICADE WD SELF-ADHESIVE WALL UNDERLAY - WEATHER RESISTIVE BARRIER

TECH DATA SHEET

V1.1 June 2022

DESCRIPTION

Barricade WD is a three-layer polypropylene self-adhesive flexible wall underlay. It is manufactured by thermally bonding outer spunbonded layers to an inner layer of microporous poly propylene film, coated with pressure sensitive pure poly acrylic adhesive coating offering superior adhesion to a variety of typical materials.

Barricade WD is designed to be applied over clean dry sound building substrates such as Masons Weather Defense fibre cement board, to provide a highly air water and UV resistant wall underlay or weather resistive barrier that also passes water vapour effectively.

Barricade WD is based on the same formula as for Masons VHP Maxi roof underlay, and UNI PRO flexible air barrier. Reports cited are based on these Masons products **.

Property	Method/Standard	Units	Value	Minimum	Maximum	Notes
Barricade WD self-adhesive underlay properties						
Mass/unit area		g/m²	220	-5%	+5%	
Thickness		mm	1	-5%	+5%	Underlay-adhesive & release film
Width		m	1.46			
Length		Lm	31.14			
m² on Roll		m²	50			
Flammability Index	AS1530.2 Flammability Index		<12			Considered not fire-retardant for NZ standards. NZWTA test on UNI PRO 1403605.7 1/2/2022 - FI 9 ***
**	**	**	**			**Scion report 43743986 Sept-2021 VHP Maxi
Resistance to water penetration	ASTM E96 procedure B	100	Pass			

Property	Method/Standard	Units	Value	Minimum	Maximum	Notes
Resistance water vapour transmission	AS/NZS 4201.4	ug/N.sd	0.344			wall <7 MN s/g roof <.5 MN s/g
Water absorbance	AS/NZS 4201.6	n/m^2	**204**			wall >100g/m^2 roof >150 g/m^2 NZS 2295
Air resistance Air permeance	ISO 6536/5-1996	MN s/gm^2 Um/Pa.s	0.701 1.46			
UV resistance	Allunga Exposure Lab 120 days 287 MJm^2 of solar irradiation	days	150*	Pass for retaining 85 % of pre aged tensile & edge tear properties		
Resistance to tearing MD	Tappi T470	KN/m	373	% Retained at 150 days UV 94		
Resistance to tearing CD	EN 12310-1:2010	KN/m	233	87.3		
Tensile strength MD	ASTM D882	KN/m	724	99.5		
Tensile strength CD	EN 12311-2:2013	KN/m	4.45	90.06		
pH of extract	AS/ NZS1301.421.1998	pH	6.8			
Pressure sensitive self-adhesive properties page 2						

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Property	Method/Standard	Units	Value	Minimum	Maximum	Notes
Self-adhesive coating properties						
Adhesive type		Pure Poly acrylic				Pressure sensitive High tack and high adhesion with superior humidity, weatherability and aging performance
Coating weight		gsm	80			
Coating type		Stripped	35-15			
Temperature resistance	ATP AA-B-12-07	˚C	-40 to + 90			
Recommended Application temperature range		˚C	-10 to + 50			
Adhesive strength	AFERA 5001	Temperature resistance	0 25/ N/25mm			24 hour contact time
Hazard		Non hazardous	Temperature resistance			Minimize contact with skin or eyes
Emissions			N			APEO & solvent free
Release film	EN 12311-2:2013	Polyolefin	80 um			Dispose of responsibly

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Fire reaction class.

Per EN 13501-1 Barricade WD has a reaction to fire class of E.

The characteristics of the substrate that barricade WD is applied need to be considered closely when assessing performance or compliance of the wall assembly as to fire.

MASONS
Designed Smart, Built Tough.

TESTS PERFORMED BY PRI CONSTRUCTION MATERIAL TECHNOLOGIES LLC

Product Name: Barricade WD Self Adhered Membrane
Project No: 2309T0006
Dates Tested: April 21st - May 9th, 2022
Test Methods: AAMA 711-22 Section 5.3 Peel Adhesion

Test Results: Conditions at beginning of testing 22°C (73°F) with 50% Rh.

Property	Test Method	Result	Requirement
Performance Requirements			
AAMA 711-22 Section 5.3 Peel Adhesive to substate (ibf/in) 5 specimens; 1" x 12"; Condition 24h @ 73.4±3.6°F and 50±5%RH; Test @ 73.4±3.6°F; Rate = 12±0.5 in/min	ASTM D3330 Method F		
OBS (PS-2 Exposure 1 Smooth Side out)		1.6	≥1.5
Anodized Aluminum (AA M12C22A41)		3.0	≥1.5
Vinyl		2.9	≥1.5
Plywood (PS-1 Grade Exposure 1)		2.5	≥1.5
Fibre Cement Board		2.9	≥1.5
Expand Polystyrene (EPS) - 1 pcf		1.5	≥1.5
National Gypsum Gold Bond eXP		0.7	≥1.5
CMU		1.0	≥1.5
Georgia Pacific DensGlass		2.3	≥1.5

Note(s) - None

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