

DESCRIPTION & USE

LEXCAN HI-PRO PVC KEE MEMBRANE is a premium roofing and waterproofing membrane. The membrane is a trilaminate, consisting of two heavy gauge PVC layers internally reinforced with a heavy-duty polyester scrim. Evaloy KEE* (Ketone Ethylene Ester) is added to the polyvinyl chloride polymer to ensure plasticizer retention, extend roof life and reduce maintenance costs.

HI-PRO PVC KEE MEMBRANE is available in 1.3 mm (50-mil), 1.5 mm (60-mil) and 2.0 mm (80-mil). Standard colours are white and grey; however, all colours are not available as standard stocked items in all size configurations. Contact LEXCAN for minimums and lead times.

HI-PRO PVC KEE MEMBRANE meets the requirements of ASTM D 4434, Type III.

* Evaloy® KEE is a registered trademark of Dow

FEATURES & BENEFITS

Advanced Polymer Formulation - KEE added to the PVC polymer ensures plasticizer retention, extends roof life and reduces maintenance costs.

Non-wicking Reinforced Polyester Scrim - provides added tensile strength and toughness. Sealant is not required due to the membrane's non-wicking edge.

TECHNICAL DATA

	ASTM Test Method	ASTM Requirements	PVC Result 1.3 mm (50-mil)	PVC Result 1.5 mm (60-mil)	PVC Result 2.0 mm (80-mil)
Breaking Strength, min, N (lbf):	D751	890 (200)	1,521 (342)	1,606 (361)	1,859 (418)
Elongation at Break, min, %:	D751	15	27	30	32
Tearing Strength, min, N (lbf):	D751	200 (45)	394 (88.6)	492 (110.6)	360 (81)
Seam Strength, min, % of Breaking Strength:	D751	75	100	100	100
Static Puncture Resistance kg (lbf):	D 5602	Pass @ 15 (33)	Pass	Pass	Pass
Dynamic Puncture Resistance kg (lbf):	D 5635	Pass @ 9 (20)	Pass	Pass	Pass
Thickness, min, in:	D 751	+/- 10% from Nominal	0.050 Nominal	0.060 Nominal	0.080 Nominal
Thickness Over Scrim, min, in.:	D 7635	0.016	0.022	0.026	0.038
Water Absorption, max, % :	D 570 modified	3.0	0.13	0.12	0.41
Low Temperature Bend, °C (°F) :	D 2136	No crack @ -4.4°C (-40°F)	Pass	Pass	Pass
Properties after Heat Aging, min :	D 3045	56 days @ 80°C (176°F)			
Breaking Strength, % (after aging) :	D 751	90	92	91	97
Elongation, % (after aging) :	D 751	90	91	94	90
Linear Dimensional Change, max, % after 6 hrs @ 80°C (176°F) :	D 1204	0.5	0.19	0.24	0.4
Accelerated Weathering, min :	G 151 & G 154	5,000 hrs			
Cracking (@ 7x Magnification) :	G 154	No cracks	Pass @ 35,000 hrs	Pass @ 40,000 hrs	Pass @ >40,000 hrs
Discoloration (by observation) :	G 154	Negligible	Negligible	Negligible	Negligible
Crazing (@ 7x Magnification) :	G 154	No crazing	Pass @ 35,000 hrs	Pass @ 40,000 hrs	Pass @ >40,000 hrs
Moisture Vapour Transmission :	ASTM E96, Proc B, Method A	-	0.02g/m ² per 24 hrs	0.02g/m ² per 24 hrs	0.01g/m ² per 24 hrs



Chemical Resistant - HI-PRO PVC KEE MEMBRANE is inherently resistant to numerous industrial wastes and chemicals, including oils, air conditioning coolants, fuels and grease. Contact LEXCAN to verify the resistance of the membrane to a particular chemical before proceeding with installation.

Reliable Heat-Welded Seams - thermofused, molecularly bonded seams offer high strength and superior reliability.

Energy Saving - white HI-PRO PVC KEE MEMBRANE provides outstanding reflectivity and emissivity.

SINGLE PLY ROOFING SYSTEMS

Ontario & Western Canada 1.800.268.2889

Quebec & Atlantic Canada 1.800.363.2307

Distr. By/Par Lexsuco 2010 Corporation, 3275 Orlando Drive, Mississauga, ON, L4V 1C5

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Note: The reported values are based on samples tested of this product. The reported values represent typical, average values obtained in accordance with accepted test methods and are subject to normal manufacturing variations.

ENERGY & THE ENVIRONMENT

Standard		Reflectivity	Emissivity
CCRC®	White	Initial:	0.86
		3 Yr. Aged:	0.70
CA Title 24	White	Pass:	0.86
LEED® (SRI)	White	Initial:	108
		3 Yr. Aged:	84
Recycled Content	Post-Consumer:		0%
	Post Industrial:		0% - 10%

The LEED® Solar Reflectance Index (SRI) is calculated per ASTM E1980.

PACKAGING & COVERAGE

NOTE: All colours not available as standard stocked items in all size configurations. Please call for minimums and lead times.

1.3 mm (50-mil)

Roll Width	Roll Length	Roll Coverage	Colours
1 m (3.25')	30.48 m (100')	30.19 m ² (325 ft ²)	white
1.52 m (5')	30.48 m (100')	46.45 m ² (500 ft ²)	white
1.98 m (6.5')	30.48 m (100')	60.38 m ² (650 ft ²)	white
3.05 m (10')	30.48 m (100')	92.9 m ² (1,000 ft ²)	white

1.5 mm (60-mil)

Roll Width	Roll Length	Roll Coverage	Colours
1 m (3.25')	30.48 m (100')	30.19 m ² (325 ft ²)	white
1.52 m (5')	30.48 m (100')	46.45 m ² (500 ft ²)	white & grey
1.98 m (6.5')	30.48 m (100')	60.38 m ² (650 ft ²)	white & grey
3.05 m (10')	30.48 m (100')	92.9 m ² (1,000 ft ²)	white & grey
3.66 m (12')	30.48 m (100')	111.5 m ² (1,200 ft ²)	white

2.0 mm (80-mil)

Roll Width	Roll Length	Roll Coverage	Colours
1 m (3.25')	22.86 m (75')	22.65 m ² (243.75 ft ²)	white
1.52 m (5')	22.86 m (75')	34.84 m ² (375 ft ²)	white
1.98 m (6.5')	22.86 m (75')	45.29 m ² (487.5 ft ²)	white & grey
3.05 m (10')	22.86 m (75')	69.68 m ² (750 ft ²)	white & grey
3.66 m (12')	22.86 m (75')	83.61 m ² (900 ft ²)	white & grey

PRODUCT COMPATIBILITY

HI-PRO PVC KEE MEMBRANE is compatible with the following Application Methods:

- Fully Adhered
- Mechanically Fastened
- Induction Welded (Mechanically Fastened)

INSTALLATION

Refer to HI-PRO PVC KEE MEMBRANE application guides and detail drawings for instructions.

WARRANTY

Superior installation quality and long-term performance can be guaranteed with comprehensive LEXGUARD warranty packages. To provide the best assurance of a quality installation, projects with ESSENTIAL, ULTIMATE, and EXTREME packages are normally inspected both during installation and after completion by a LEXCAN technical representative.