

LEXCAN

HI-FLEX EPDM

White Membrane

DESCRIPTION & USE

Lexcan Hi-Flex EPDM White Membrane is a synthetic rubber of vulcanized ethylene propylene diene monomer. Possessing excellent weathering, ozone and ultra-violet resistance characteristics, EPDM membrane has long been established as an ideal roofing and waterproofing material. In conjunction with a Lexcan design system featuring the super strong Lexseam™ adhesive/tape seam, Hi-Flex EPDM White offers building owners the security of a proven, long-lasting roof.

Hi-Flex EPDM White Membrane is available in 1.5 mm (60 mil) and 2.3 mm (90 mil) thicknesses. 1.5mm (60 mil) is available in widths up to 6 m (20') and lengths of up to 30 m (100'). 2.3 mm (90 mil) is available in widths of 3m (10') and lengths of up to 30 m (100').

Refer to Lexcan's System Data bulletins and system specifications for further information on Lexcan design systems. Hi-Flex EPDM may also be used as a waterproofing liner in reflecting ponds, reservoirs and chemical containment tanks. Lexcan technical representatives should be consulted for assistance in determining the suitability of EPDM for a particular chemical liner application.

FEATURES & BENEFITS

- **Superior Weatherability** - Hi-Flex EPDM out-performs traditional built-up, modified bitumen and thermoplastic membranes in long-term weatherability. Highly resistant to ozone or ultra-violet deterioration, a properly installed Hi-Flex EPDM roof may well outlast the building it is installed on!
- **Flexibility** - Hi-Flex EPDM remains flexible even in temperatures as low as -55°C. Structural expansion or contraction that would crack or tear other roofing materials does not affect EPDM.
- **Proven Durability** - Hi-Flex EPDM Roofs have been successfully installed on over 25,000 projects across the country and protected buildings for over 47 years.
- **The Backing of Lexcan** - Canada's premier supplier of single-ply roofing systems. No other company can match Lexcan's breadth and background of experience and success in Canadian roofing.



APPLICATION

Hi-Flex EPDM White Membrane is primarily utilized in Fully-Adhered Roofing Systems.

Hi-Flex EPDM White Fully-Adhered Roofing System: Insulation is mechanically attached or adhered to the roof deck. The substrate and membrane are coated with Lexcan Hi-Flex EPDM BA-90 Bonding Adhesive. The membrane is then rolled into place and brushed down.

CAUTIONS & LIMITATIONS

- Sunglasses which filter out ultraviolet light are strongly recommended since the white surface intensifies sunlight through reflection.
- White surfaces reflect heat and may promote slippery conditions due to frost and ice build-up. Exercise extreme caution during cold conditions to prevent falls.
- Care must be exercised when working close to a roof edge when surrounding area is snow covered; roof edge may not be clearly visible.
- Use proper stacking procedures to ensure sufficient stability of the materials.
- Exercise caution when walking on wet membrane. Membranes are slippery when wet.
- Prolonged job site storage at temperature in excess of 90°F (32°C) may affect product shelf life.
- In warm, sunny weather, shade the tape end of the rolls until ready to use.

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LEXCAN SINGLE PLY ROOFING SYSTEMS

Ontario and Western Canada
1 877 792.8308



Quebec and Eastern Canada
1 800 363.2307

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TECHNICAL DATA

Property	Test Method	Spec	Typical Value
Tolerance on Nominal Thickness	ASTM D412	±10%	±10%
Weight	1.5 mm (60 mil) 2.3 mm (90 mil)	1.8 kg/m ² (0.37 lbm/ft ²) 2.9 kg/m ² (0.60 lbm/ft ²)	
Tensile Strength , min	ASTM D412	9 MPa (1305 psi)	10.1 MPa (1465 psi)
Ultimate Elongation , min	ASTM D412	300	540%
Factory Seam Strength , min	Modified ASTM D816	Mem. Rupture	Mem. Rupture
Resistance to Heat Aging* Properties after 28 days @ 116°C (240°F)	ASTM D573		
Tensile Strength , min	ASTM D412	8.3 MPa (1205 psi)	9.3 MPa (1345 psi)
Ultimate Elongation , min	ASTM D412	200	280%
Tear Strength , min	ASTM D624	21.9 lbf/in (125 kN/m)	32.4 lbf/in (185 kN/m)
Linear Dimensional Change , max	ASTM D1204	±1.0	-0.2%
Ozone Resistance* Condition after exposure to 100 ppm Ozone in air for 168 hours @ 40°C (104°F) Specimen is at 50% strain	ASTM D1149	No cracks	No cracks
Brittleness Temp. , max	ASTM D746	-45°C	-55°C
Resistance to Water Absorption* After 7 days immersion @ 158°F (70°C) Change in mass, max	ASTM D471	+8, -2	+3.3
Vapour Transmission Rate*	ASTM E96 (Proc. B)	0.10 perms	0.02 perms
Resistance to Outdoor (Ultraviolet) Weathering* Xenon-Arc, total radiant exposure at 0.70 W/m ² irradiance, 80°C black panel temperature At 0.35 W/m ² irradiance, 80°C black panel temperature	ASTM G155	No Cracks No Cracking 7,560 kJ/m ² 3,000 hrs	No Cracks No Cracking 25,200 kJ/m ² 10,000 hrs
Flexibility/Torsion DMA	ASTM D5279-08	N/A	55 MPa @ -40°C
Fungi Resistance	ASTM G21	N/A	0 (No Growth)

*: Not a Quality Control Test. However, all tests are run to ensure overall long-term performance.

Typical properties and characteristics are based on samples tested and are not guaranteed for all samples of this product. This data and information is intended as a guide and does not reflect the specification range for any particular property of this product.

LEED INFORMATION

Pre-consumer Recycled Content	0%
Post-consumer Recycled Content	0%
Solar Reflectance Index	94

Radiative Properties for ENERGY STAR, Cool Roof Rating Council (CRRC) and LEED

ENERGY STAR initial solar reflectance	Solar Spectrum Relectometer	0.76
ENERGY STAR solar reflectance after 3 years	Solar Spectrum Relectometer (after cleaning)	0.64
CRRC initial solar reflectance	ASTM C1549	0.76
CRRC solar reflectance after 3 years	ASTM C1549 (uncleaned)	0.64
CRRC initial thermal emittance	ASTM C1371	0.90
CRRC initial thermal emittance after 3 years	ASTM C1371 (uncleaned)	0.87
LEED thermal emittance	ASTM E408	0.91
SRI (Solar Reflectance Index)	ASTM E1980	94

APPROVALS & COMPLIANCES

Note: Lexcan Hi-Flex EPDM Membrane meets or exceeds the minimum requirements set forth by ASTM D4637 for Type I non-reinforced EPDM single-ply roofing membranes.

Lexcan Hi-Flex EPDM roof systems have also been tested and meet the requirements of:

- Factory Mutual Research Corp.
- Underwriters' Laboratories Inc.

For further information on specific listings and approvals, refer to the appropriate listing book or consult your Lexcan representative.

INSTALLATION

Hi-Flex EPDM is installed by professional roofing contractors trained and approved by Lexcan. Refresher seminars are regularly held to update contractors on the latest techniques and developments.

WARRANTY

Superior installation quality and long term performance is guaranteed with comprehensive Lexguard warranty packages. To provide the best assurance of a quality installation, projects are normally inspected both during installation and after completion by a Lexcan technical representative.

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