

Strong, Seamless, Reliable.

Spray-applied
polyurea air barrier



Keep your projects on track with a fast and reliable air barrier

Insulaire™ 2K is a high-performance, spray-applied polyurea air barrier, delivering exceptional air and moisture protection in demanding environments. With fast application and quick curing, it keeps your projects on track by reducing delays and intensive labour. Engineered to perform in a wide range of temperatures, including below zero, it minimizes weather-related downtime, ensuring productivity throughout the year.

FEATURE	INSULAIRE POLYUREA	SELF-ADHERED MEMBRANE	ELASTOMERIC MEMBRANE
Seamless	●	●	●
Fast Application	●	●	●
Installs Below 0°C	●	●	●
Quick Detailing	●	●	●
Reduces Labour	●	●	●
Minimal Site Prep	●	●	●

✓ Cold-Weather Ready

Applies effectively in temperatures below 0°C, minimizing delays related to weather conditions

✓ Seamless Protection

Forms a continuous air and water barrier, unlike traditional peel & stick membranes that can leave gaps

✓ Fast Application

Spray application minimizes labour needs, and rapid curing enables faster project completion

Insulaire™ 2K Technical Data

Attribute	Test	Results
Air Barrier Material	CAN/ULC S741 ASTM E2178	Pass <0.02 L/s·m ² @ 75 Pa
Air Barrier Assembly	CAN/ULC S742 ASTM E2357	Pass <0.02 L/s·m ² @ 75 Pa
Resistance to gust wind load	ASTM E330 (5000 Pa)	No delamination or variation in the air permeability
Water Vapour Transmission	ASTM E96	58 ng/Pa·s·m ² @ 1.27mm or 50 mils
Water Absorption	CAN/CGSB 37.58-M86	0.43%
Tensile Strength	CAN/CGSB 37-GP-56M	392N (MD) 400N (XD)
Peel Strength	CAN/CGSB 37.58-M86 ASTM C794	1726 N/m
Elongation	CAN/CGSB 37-GP-56M	334% (MD) 347% (XD)
Dry Film Thickness	ASTM D5147	1.27 mm (50 mils)
Low Temp Flexibility	CAN/CGSB 37.58-M86 ASTM C794	-40°C No Crack
Dimensional Stability	CAN/CGSB 37.58-M86	0.38% (MD) 0.43% (XD)

Attribute	Test	Results
Horizontal Burn	UL 94	HB (Self extinguishes)
Static Puncture (-15°C)	CAN/CGSB 37-GP-56M	Pass Rating 4
Dynamic Puncture (-15°C)	CAN/CGSB 37-GP-56M	Pass Rating 4
Crack Bridging (-20°C & 40°C)	ASTM C1305	Pass, no splitting or loss of adhesion
Water Tightness*	CAN/CGSB 37.56-M86	Pass
Lap Peel	ASTM D1876	1680 N/m
Pull Adhesion on Concrete (With Primer)	ASTM D4541	5.84 MPa 847 lb/in ²
Pull Adhesion on Concrete (Without Primer)	ASTM D4541	3.56 MPa 516 lb/in ²
Adhesion of Poured Concrete to Hydrothane**	ASTM D4541-M	10,000 N/m ² 1.45 lb/in ²
Resistance to Hydrostatic Head	ASTM D5385	92 m 301 ft
Colour	-	Black

*After puncture, impact, chemical aging, heating aging and UV aging

**With acrylic concrete primer

Wind Loading Resistance

Insulaire 2K is tested in accordance with ASTM E330 under positive and negative wind loads, achieving a C5 rating that demonstrates exceptional performance against heavy winds of up to 329 km/h. This ensures long-term durability and airtightness for buildings in high-wind climate zones.

Get in Touch

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Transition Membrane

Insulaire 2K is a high-performance transition membrane, forming a seamless barrier around windows, doors, and penetrations. The spray application simplifies detailing, ensuring continuous coverage to reduce air leaks and moisture intrusion between transitions.



INSUR-2K-0001 Rev 2