



# Tackle environmental challenges with lasting & sustainable spray foam insulation.

## Build greener with **Insulthane® Extreme**

**Closed Cell Spray Foam**

**LTTR R-6.03 per inch @ 4"**

**Contains no HFCs**

**Ultra-low GWP of 1**

Insulthane® Extreme is engineered to meet modern building science strategies of energy efficiency and resilient building design. Add value to your project with a premium insulation system that's proven to achieve a tighter building enclosure, unmatched thermal protection and excellent moisture management.



### Structural Strength

Increase racking strength and reduce complications caused by moisture and high wind events



### Air, Water & Moisture

Extend the life of structures and prevent air leaks with an integrated air, water and moisture barrier



### Design Flexibility

Seal hard-to-reach areas such as cavities, gaps and crevices without compromising your design



### Sustainable

Maximize energy efficiency and reduce carbon emissions, while increasing comfort and savings

### Ultra-low Global Warming Potential

Insulthane Extreme is Canada's first CCMC listed medium-density spray polyurethane foam insulation system to eliminate HFCs, resulting in an ultra-low Global Warming Potential of 1<sup>i</sup>.

### Recycled Content

Each set of Extreme contains an average of 2,500 recycled PET bottles. PET (Polyethylene Terephthalate) are common consumer plastics that are converted to polyester polyols and used to formulate high performance spray foam insulation.

### Long Term Thermal Resistance (LTTR)

LTTR value of Insulthane® Extreme at various thicknesses.

THICKNESS	LTTR
2.0 inch	11.08
3.0 inch	17.48
4.0 inch	24.12
5.0 inch	30.65
6.0 inch	37.18
7.0 inch	43.71

# Insulthane® Extreme

## Technical Data

Attribute	Test	Results
<b>Density</b>	ASTM D1622	2.2 lb/ft <sup>3</sup> 34.5 kg/m <sup>3</sup>
<b>Long Term Thermal Resistance (50mm Foam Depth)</b>	CAN/ULC-S770-09	R 10.9 RSI 1.92
<b>Water Vapour Transmission</b>	ASTM E96 25 mm	47.34 ng/ (Pa·s·m <sup>2</sup> )
<b>Water Vapour Transmission</b>	ASTM E96 50 mm	36.1 ng/ (Pa·s·m <sup>2</sup> )
<b>Corner Wall Test</b>	CAN/ULC-S127	330
<b>Flame Spread</b>	CAN/ULC-S102 Steiner Tunnel	Flame 5 Smoke 130
<b>Flame Spread</b>	ASTM E84 Class 1	<25
<b>Dimensional Stability<sup>ii</sup> (Volume Change after 28 days)</b>	ASTM D2126	-20°C, +1.0% 80°C, +1.0% 70°C & 97% ±3%RH, +9.0%
<b>Tensile Strength</b>	ASTM 1623	64.5 psi, pass 445 kPa, pass
<b>Air Permeance @ 25 mm</b>	ASTM E2178	0.002 L/S·m <sup>2</sup>
<b>Water Absorption (% Volume)</b>	ASTM D2842	3.3%
<b>Compressive Strength</b>	ASTM D1621	25.4 Psi 175 kPa
<b>Open Cell Content</b>	ASTM D2856	2.5%
<b>VOC Emissions</b>	CAN/ULC-S774	25 hours, passed
<b>Hot Surface Performance</b>	ASTM C411	90°C 194°F
<b>Colour</b>		Burnt Sienna
<b>Protection of Exterior Building Face (NBC, Art. 3.2.3.8)</b>	CAN/ULC-S101 Inboard Assembly (8" thickness)	Pass
<b>Protection of Exterior Building Face (NBC, Art. 3.2.3.8)</b>	CAN/ULC-S101 Outboard Assembly (6" thickness)	Pass
<b>CCMC #</b>	Material Listing	13697-L
<b>CCMC #</b>	Air Barrier System	14030-R
<b>ULC-Evaluated Radon Protection System</b>	ULC ER-R40584	Pass



### REFERENCES:

All properties determined through testing by an accredited independent third party test facility.

<sup>i</sup> Formulated with Honeywell Solstice® Liquid Blowing Agent

<sup>ii</sup> Dimensional Stability was tested without a substrate



### GET IN TOUCH:

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\*Insulthane Extreme is applied exclusively by Urethane Foam Consultants (UFC) QAP licensed installers and contractors in accordance with the standard CAN/ULC S705.2.