

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 1¹.

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



REFERENCES:

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

ⁱ Formulated with Honeywell Solstice® Liquid Blowing Agent

ⁱⁱ Dimensional Stability was tested without a substrate



GET IN TOUCH:

Elastochem Specialty Chemicals Inc.
1-877-787-2436
37 Easton Road
Brantford, ON N3P 1J4
www.elastochem.com

