INSULTHANE® EXTREME

ELASTOCHEM

Tackle environmental challenges with a 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 designed to meet modern building science strategies of effective energy efficiency and lasting durability. Add value to your project with a premium product that’s proven to achieve a tighter building enclosure and add the highest insulation values, while delivering a strong return on investment.

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

Effective January 1, 2021, the use of Hydrofluorocarbons (HFCs) in spray polyurethane foams will be eliminated nationwide. Extreme is formulated without harmful HFCs resulting in an ultra-low **Global Warming Potential (GWP) of 1.**[i] Compared to closed-cell alternatives that have GWPs ranging from 700-1400, Extreme offers the lowest GWP rating available. When you choose Extreme, you’re playing a critical part in the reduction of greenhouse gas emissions.

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

GREENGUARD GOLD

ELASTOCHEM SPECIALTY CHEMICALS INC. ISO 9001 : 2015 CERTIFIED

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
CCMC #	Material Listing	13697-L
CCMC #	Air Barrier System	14030-R
ICC - ES #		ESR - 3809

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:

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