



# Insulation that keeps you warm, without warming the planet.

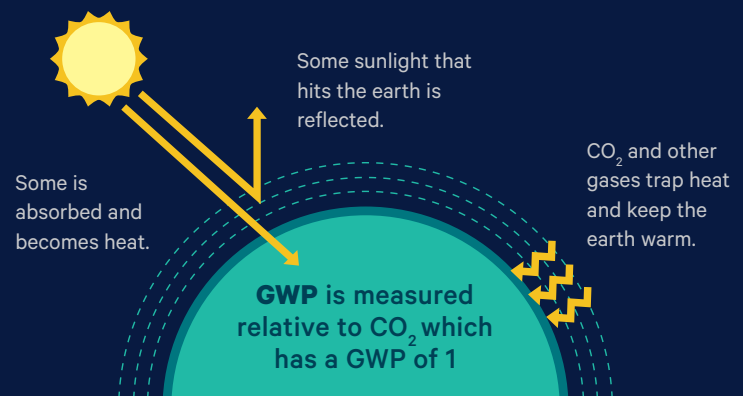
## Insulthane® Extreme helps you insulate smarter.

**Insulthane Extreme** is a Spray Polyurethane Foam (SPF) insulation system that delivers industry leading thermal protection and performance. During application, the closed-cell formula expands to fill hard-to-reach gaps and spaces, and forms a continuous air-tight insulation barrier. With professional installation, it controls moisture and condensation, reduces drafts, and improves indoor air quality. It's an all-in-one insulation that creates a seamless air, moisture and vapour barrier to improve your home's energy-efficiency, sustainability and comfort.

Formulated with advanced blowing agent technology, it's free of the harmful hydrofluorocarbons (HFCs) that are often found in closed-cell SPF. Insulthane Extreme is engineered to maximize environmental performance, so you can enjoy long term savings, while reducing your home's carbon footprint.

## What's Global Warming Potential? (GWP)

GWP is a measure of **how much heat a substance can trap in the atmosphere**. The more heat the substance traps, the more potential it has to contribute to global warming.



**Insulthane Extreme has an ultra-low GWP of 1, a 99.9% reduction from HFC spray foam insulation products.**



### Big Savings

Reduce your energy expenses by 30-50%



### Water Resistant

Prevent harmful mould and mildew growth



### Long-lasting

Enjoy high R-Values that maintain over time



### Durable

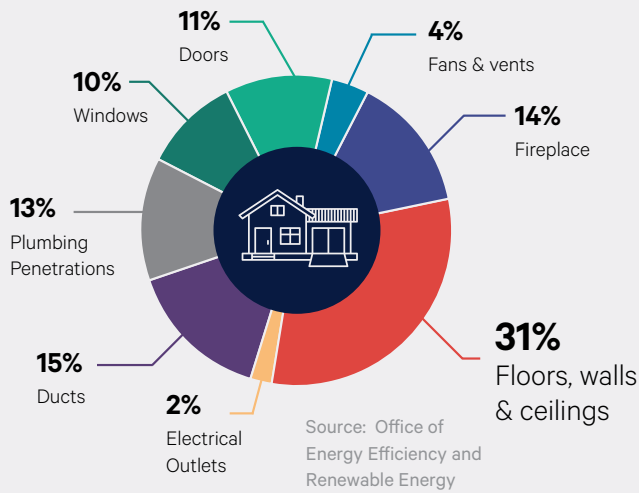
Increase structural strength of walls



### Market Value

Improve resale value with premium insulation

## Where does air escape?



One third of air escapes through the openings in ceilings, walls and floors in a home with fiberglass insulation.

## Attics

Air leaks into poorly insulated attics can account for 28% of heat loss. Insulate, strengthen and air seal in one step to prevent heated or cooled air from escaping.

## Basements

No more basement smells, drafts or chills. Create a lasting air and vapour barrier in your basement, eliminating both air infiltration and moisture issues.

## Insulthane Extreme | Technical Data

Attribute	Test	Results
Density	ASTM D1622	1.98 lb/ft <sup>3</sup> 30 Kg/m <sup>3</sup>
Long Term Thermal Resistance (50mm Foam Depth)	CAN/ULC-S770 (LTTR)	R 12 RSI 2.1
Water Vapour Transmission	ASTM E96 25 mm	47.34 ng/ (Pa·s·m <sup>2</sup> )
Water Vapour Transmission	ASTM E96 50 mm	23 ng/ (Pa·s·m <sup>2</sup> )
Corner Wall Test	CAN/ULC-S127	255
Flame Spread	CAN/ULC-S102 Steiner Tunnel	Flame 210 Smoke 195
Dimensional Stability* (Volume Change after 28 days)	ASTM D2126	-20°C, -0.9% 80°C, +0.1% 70°C @ 97% RH, -9.8%
Tensile Strength	ASTM 1623	32.8 psi, pass 226 kPa, pass

Attribute	Test	Results
Air Permeance @ 75 PA	ASTM E2178	0.0002 L/S·m <sup>2</sup>
Water Absorption (% Volume)	ASTM D2842	0.5%
Compressive Strength	ASTM D1621	26.4 Psi 182 kPa
Open Cell Content	ASTM D2856	<3%
VOC Emissions	CAN/ULC-S774	Passed
Hot Surface Performance	ASTM C411	90°C 194°F
CCMC #	Material Listing	13697-L
CCMC #	Air Barrier System	14030-R

All testing performed by an accredited independent third party test facility.  
\* Dimensional Stability was tested without a substrate



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

