

## DESCRIPTION

**Comfort Lock HFO** is Closed-Cell Medium Density Spray Polyurethane Foam insulating material that has been tested by an independent laboratory and evaluated by the **Underwriters Laboratories (ULC ER-R40655-R1.0)**. It complies with the CAN/ULC-S705.1-15 “Standard for Thermal Insulation - Spray Applied Rigid Polyurethane Foam, Medium Density – Material Specification.”

**Comfort Lock HFO** must be applied by CALIBER licensed installers under the application standard CAN/ULC S705.2.

**Comfort Lock HFO** can be used for residential, industrial, and institutional building application where proper insulation is in need. **Comfort Lock HFO** also creates a bond to almost every kind of construction material on market. It can be applied to walls, roof, rim joists, crawl space foundations and most difficult space.

**Comfort Lock HFO** is a spray applied, rigid polyurethane medium density foam insulation. The site sprayed foam system consists of two components, isocyanate and resin. The colour of the cured foam is **Sky Blue**.

**Comfort Lock HFO** elements are under a UL quality audit program where UL/ULC Field Engineering staff audit material manufacturing facilities, details of the product are on file at ULC and are described by Comfort Lock HFO, Revision 1.

## TYPICAL PHYSICAL PROPERTIES

Physical Properties	Result	Standard
Apparent Core Density	35kg/m <sup>3</sup>	ASTM E1622-14
Compressive Strength	183kPa	ASTM D1621-16
Tensile Strength	216kPa	ASTM D1623-17
Open Cell Content	5%	ASTM D6226-15
Water Absorption	0.7%	ASTM D2842
Water Vapour Permeance	47 Pa.s.m <sup>2</sup>	ASTM E96/E96M-16
Dimensional Stability (after 28 days) Volume % Change at: -20°C 80°C 70°C, 97 ± 3% RH	-1 2 6	ASTM D2126-15
Surface Burning Characteristics (FSR)	220	CAN/ULC S102-18
Air Permeance, L/s @ 75 Pa (Mandatory material only testing)	0.004 (L/s. m <sup>2</sup> )	ASTM E2178-13
Time of Occupancy (VOC)	24 hours	CAN/ULC S774:2020
Fungi Resistance	No Fungal Growth	ASTM C1338
Service Temperature	-60°C to 80°C	

## LONG-TERM THERMAL RESISTANCE

Test Method: CAN/ULC S770-09

Thickness mm/inches	R Value (ft <sup>2</sup> *hr* °F/BTU)	RSI (m <sup>2</sup> *K/W)
50/1.97	11	1.87
75/2.95	17	2.90
88.9/3.5	20.61	3.63
102/4	24	4.23
127/5	31.03	5.47
152/6	38.05	6.7
177.8/7	45.19	7.96
203/8	52.6	9.26
228.6/9	60.04	10.58



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### LIQUID COMPONENT PROPERTIES

Shelf Life	6 months
Storage Temperature Recommendation	10°C - 25°C (50°F - 77°F)
Drum Mass	248KG/246.5KG
Colour	Sky Blue
Viscosity at 25°C (77°F)	200-400 cps
Specific Gravity at 25°C (77°F)	1.05-1.15
Ratio (parts by Volume)	100 (1 part)

### REACTIVE PROFILE

CREAM TIME	GEL TIME	RISE TIME
0-1 seconds	2-3 seconds	4-5 seconds

### ADDITIONAL INFORMATION

Physical Properties	Description
Ultraviolet (UV) Exposure	3 months

**Do not apply Comfort Lock** in excess of 50 mm (two inches) depth per pass because of the product's heating effect. Before spraying another pass, please give a cooling time of at least 30 minutes between passes for dissipation of heat after spraying a pass. The risk of spontaneous combustion and poor over spraying quality would rise if not adequate cooling time allowed.

**Comfort Lock is combustible.** A thermal barrier must be installed as per local building code requirements.

### Storage Recommendations

- The Blend Polyol should be stored in sealed containers, to avoid absorption of water vapour
- During transportation, protect the product from excessive shaking, and avoid sunlight exposure
- Product should be stored in a ventilated space, away from light, water, and fire

### Safety Precautions

- Direct contact with Comfort Lock leads to eye and skin irritation
- Repeated inhalation of volatile gas will cause respiratory allergy- seek immediate medical treatment
- Always wear protective equipment when handling product-gloves, protective goggles, protective clothing
- If exposed to eyes: immediately rinse with water for at least 15 minutes
- If exposed to skin: wash with soapy water
- If swallowed: SEEK EMERGENCY MEDICAL TREATMENT IMMEDIATELY!

### TECHNICAL ASSISTANCE

[www.sdpu.ca](http://www.sdpu.ca)

#### COMFORT LOCK

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