

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 **Canadian Construction Materials Centre (CCMC 14509-L)** and **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 is a low VOC emitting material and it meets the requirements of the **GREENGUARD GOLD** certification.

Comfort Lock HFO can be used for residential, schools, healthcare facilities, 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 ³	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 ²	ASTM E96/E96M-16
Dimensional Stability (after 28 days) Volume % Change at:		ASTM D2126-15
-20 °C	-1	
80 °C	2	
70 °C, 97 ± 3% RH	6	
Surface Burning Characteristics (FSR)	220	CAN/ULC S102-18
Air Permeance, L/s @ 75 Pa (Mandatory material only testing)	0.004 (L/s. m ²)	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 ² *hr* °F/BTU)	RSI (m ² *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 HFO 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 HFO 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 HFO 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

COMFORT LOCK HFO

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