

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)**. 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 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) | 500 | 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 | |

ADDITIONAL INFORMATION

| Physical Properties | Description |
|---------------------------|-------------|
| Ultraviolet (UV) Exposure | 3 months |

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 | 19.73 | 3.48 |
| 102/4 | 23.01 | 4.05 |



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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 |

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

COMFORT LOCK

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