SHUNDA POLYURETHANE LTD

COMFORT LOCK

DESCRIPTION

Comfort Lock is Closed-Cell Medium Density Spray Polyurethane Foam insulating material that has been tested by an independent laboratory and evaluated by the CCMC (CCMC#14344-L). It complies with the CAN/ULC S705.1-01 (Amendments 1, 2 and 3) "Standard for Thermal Insulation – Spray Applied Rigid Polyurethane Foam, Medium Density – Material Specification".

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

Comfort Lock can be used for residential, industrial, and institutional building application where proper insulation is in need. **Comfort Lock** 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.

TYPICAL PHYSICAL PROPERTIES

PHYSICAL PROPERTIES	RESULT	STANDARD
Apparent Core Density	38 kg/m^3	ASTM E1622
Compressive Strength	272kPa	ASTM D1621
Tensile Strength	300kPa	ASTM D1623
Open Cell Content	5%	ASTM D2856
Water Absorption	1%	ASTM D2842
Water Vapour Permeance	27 Pa.s.m^2	ASTM E96
Dimensional Stability (After 28 Days) Volume % Change at: -20°C 80°C 70°C, 97 ± 3% RH	0 +1 +13	ASTM D2126
Surface Burning Characteristics (FSR)	430	CAN/ULC S102 (S127)
Air Permeance, L/s @ 75 Pa (Mandatory material only testing)	<0.02 (s• m^2)	ASTM E 2178
Time of Occupancy (VOC)	24 hrs.	CAN/ULC S774
Fungi Resistance	No Fungal Growth	ASTM C 1338
Ultraviolet (UV) Exposure	3 Months	
Service Temperature	-60°C to 80°C	

COMFORT LOCK IS A REGISTERED TRADEMARK WITH PERMISSION BY SHUNDA POLYURETHANE LTD
190 SILVER STAR BLVD UNIT 9 & 10, SCARBOROUGH, ON M1V 0E5 CANADA
TEL: 905-754-0568 | TOLL FREE: 1-855-818-8288 | FAX: 905-754-0558 | E-MAIL: INFO@SDPU.CA

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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	10.48	1.85
75/2.95	15.91	2.80
88.9/3.5	19.28	3.40
102/4	22.46	3.96
127/5	28.84	5.08
152/6	34.65	6.10
177.8/7	41.22	7.26
203/8	48.06	8.46

LIQUID COMPONENT PROPERTIES

Shelf Life	6 Months
Storage Temperature Recommendation	10°C-25°C (50°F-77°F)
Drum Mass	248 KG
Colour	Aquatic 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

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INSTALLATION GUIDELINES

	COMFORT LOCK
Substrate & Ambient Temps	0°C to 35°C (32°F to 95°F)
Spraying Temperatures	35°C to 50°C (95°F to 122°F)
Hose Temperatures	35°C to 45°C (95°F to 113°F)
Pressure	900psi to 1500psi (62Kpa to103Kpa)

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 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

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