



## DESCRIPTION

Gaco 183M-CAN is a two component HFC-blown (zero ozone-depleting) liquid spray system that cures to a medium density rigid cellular polyurethane insulation material. Gaco 183M-CAN contains polyols derived from naturally renewable oils, post-consumer recycled plastics, and pre-consumer recycled materials. This closed cell foam is designed to provide: excellent thermal performance; air impermeable insulation; and, an integral part of an air barrier assembly. The finished material meets or exceeds the requirements of CAN/ULC-705.1. The cured material is pewter in colour.

## CHEMICAL PROPERTIES

### (For components)

	TEST	ISOCYANATE	RESIN
Viscosity, cps 25°C (77°F)	ASTM D2196	200 ± 50	750 ± 50
Specific Gravity 25°C (77°F)	ASTM D1638	1.22	1.20
Weight/Gallon 25°C (77°F)		10.34 lbs/gal	10.0 lbs/gal
Mixing Ratio By volume		1	1
Stability When Stored at 10°C to 21°C (50°F to 70°F)		12 Months	6 Months

## PHYSICAL PROPERTIES

### (Cured Material)

	TEST	RESULT
Core Density	ASTM D1622	32.2 Kg/m <sup>3</sup> (2.02 lbs/ft <sup>3</sup> )
Aged Thermal Resistance (R-Value) (180 days at 23oC; 50 mm thick specimens)	ASTM C518	2.30 m <sup>2</sup> ·K/W
Long Term Thermal Resistance		
100 mm	CAN/ULC-S770	3.88 m <sup>2</sup> ·K/W
75 mm	CAN/ULC-S770	2.79 m <sup>2</sup> ·K/W
50 mm (Type 1)	CAN/ULC-S770	1.80 m <sup>2</sup> ·K/W
25 mm	CAN/ULC-S770	0.89 m <sup>2</sup> ·K/W
Compressive Strength	ASTM D1621	181 kPa
Tensile Strength	ASTM D1623	269 kPa
Dimensional Stability (7 Days)		
at -20°C	ASTM D2126	-0.1 % volume change
at 80°C	ASTM D2126	0.5 % volume change
at 70°C, 97 ± 3% RH	ASTM D2126	6.4 % volume change
Open Cell Content	ASTM D2856	2.6 %
Surface Burning Characteristics		
Flame Spread Rating	CAN/ULC-S127	255
Smoke Development Classification	CAN/ULC-S102	330
Surface Burning Characteristics	ASTM E-84	Class 1
Water Absorption	ASTM D2842	0.71 % by volume
Water Vapor Permeance (50 mm thick specimen)	ASTM E96 – Method A	36 Ng/Pa·s·m <sup>2</sup>
Air Permeance @ 75Pa (Infiltration/Exfiltration)	ASTM E2178	0.0013 L/s·m <sup>2</sup>
Air Barrier Assembly Testing	ASTM E2357	0.0027 L/s·m <sup>2</sup>
Crack Bridging	ASTM C1305	Pass @ -26°C (-15°F) Pass
Pull Adhesion		
Concrete Masonry Unit		237 kPa
Gypsum Sheathing (Dens Glass)		162 kPa
Oriented Strand Board (OSB)		210 kPa
Fungi Resistance	ASTM C1338	Pass no growth
Volatile Organic Compounds	CAN/ULC-S774	Pass
Time to Occupancy		1 hour



**APPLICATION**

To ensure optimum performance, a minimum pass thickness of 3/4" (1.9 cm) is recommended with the maximum not to exceed 2" (5.1 cm) per pass. To obtain optimum results substrate temperature should be within the ranges as stated below. All substrates must be dry at the time of application. Do not apply to wood surfaces with a moisture content of above 18%.

**MATERIAL**

Gaco 183M-CAN  
Gaco 183M-CANW

**SUBSTRATE TEMPERATURE**

4.4°C to 48.9°C (40°F to 120°F)  
-1.1°C to 37.8°C (30°F to 100°F)

**PROCESS SPECIFICATIONS**

Equipment pre-heater temperature

Component A

41°C to 57°C

105°F to 135°F

Component B

41°C to 57°C

105°F to 135°F

Hose temperature

41°C to 57°C

105°F to 135°F

Spray pressure (dynamic)

1,000 to 1,200 psi

69 to 83 Bar

Cream Time

0 - 1 seconds

Rise Time

3 - 6 seconds

Tack Free Time

4 - 8 seconds

Cure Time

4 hours

**RECOMMENDED USES**

Gaco 183M-CAN will provide excellent performance in a wide range of residential, commercial and industrial applications where in service temperatures are between -40°C and 93°C.

Walls

Ceilings

Floors

Attics

Crawlspaces

Foundations

Concrete Slabs

Residential Ducts

Plenums

Cold Storage

Freezers

Piping

**STORAGE**

Gaco 183M-CAN components should be stored in sealed containers at 10°C to 21°C (50°F to 70°F) in a dry area. Avoid exposure to freezing temperatures. Store on wooden pallets to avoid direct contact with the ground. Material in containers should be maintained at 15°C to 26°C (60°F to 80°F) while in use. Material temperature should be confirmed with a thermometer or an infrared gun.

**LEED INFORMATION**

Gaco 183M-CAN has a minimum of 8.6% recycled content based on weight, including 6.6% pre-consumer material and 2.0% post-consumer material. Gaco 183M-CAN raw materials are blended in Waukesha, WI. Actual polyurethane foam end product production is done on-site by the applicator.

**TECHNICAL SUPPORT**

We have a dedicated technical support team offering knowledgeable support for everything from preventative maintenance, equipment calibration and servicing through to coating and foam application advice. If you have any questions regarding the use of this product please call us toll free at 1-800-901-0088 or email us [info@pinnaclewest.net](mailto:info@pinnaclewest.net).

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