

# **GREEN INSULATION TECHNOLOGIES, LLC**

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## **2.0 Pound**

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### **Product Description**

GIT's 2.0 is non-ozone depleting spray polyurethane foam. GIT's 2.0 foam is a reaction product of polymeric isocyanate "A-component" and resin "B-component" blown by water. GIT's 2.0 is closed cell rigid foam with nominal 2.0 lb/ft<sup>3</sup> density. Utilization of water as a blowing agent yields superior insulation properties over conventional insulating materials. GIT's 2.0 is designed for construction of the airtight, energy efficient buildings.

### **Equipment**

GIT's 2.0 is designed for use with a 1:1 by volume proportioning unit equipped with heaters to maintain recommended material temperatures. The spray gun should be set up for 12-20lb's per minute throughput. Proper equipment and gun selection is critical to insure optimal processing characteristics. Contact a Green Insulation Technician for assistance in selecting proportioning units and guns.

### **Processing Temperature and Humidity**

GIT's 2.0 may be applied between ambient temperatures of 50° F and 110° F and relative humidity less than 80%. DO NOT apply 2.0 if ambient temperature is less than 5° F above dew point.

### **Machine Pressure and Temperature Recommendations**

	<u>Preheater</u>	<u>Pressure</u>
A side	120 - 130° F	1,000-1,200 PSI
B side	120 - 130° F	1,000-1,200 PSI
Hose Temp	120 - 130° F	

### **Application**

Optimal application thickness is ½ to 2.0 inches. Lifts beyond 3" could result in excessive exotherm and possible scorching. GIT's 2.0 is designed for interior use and not approved for exterior applications.

### **Material Storage**

GIT's 2.0 components MUST be stored between 50 –80 ° F and out of direct sunlight. The A component is moisture sensitive. If material remains in a drum be sure to seal bungs tightly to minimize moisture exposure.

### **Disposal of Empty Drums**

Empty drums should be dripped dry, and may be sent to a qualified drum re-conditioner, drum recycling facility, or a land fill permitted to accept used drums. Drums should not be torched cut to avoid generation of irritating toxic gases and vapors from residual chemicals or cured product present in the drum.

### **Safety Precautions**

Appropriate literature has been assembled which provides information concerning the health and safety precautions that must be observed when handling 2.0 components. Before working with these products, you must read and become familiar with the available information on their hazards, proper use, and handling. This can not be over emphasized. Information is available in several forms, e.g., material safety data sheets and product labels.

GIT's 2.0 must be covered by an improved 15 minute thermal barrier or ignition barrier, depending on application and local building code requirements. Always consult your local building official or Green Insulation's Representative for approved applications and restrictions.

**System Specifications**

<u>Viscosity</u>	<u>cps @ 70° F</u>
A- Component	175-250
B- Component	600-800

<u>Mix Ratio</u>	<u>By Volume</u>
A- Component	100
B- Component	100

**Typical Physical Properties**

Yield 4000-4500 board feet (Individual results may vary)

Density	ASTM D-1622	Nominal 1.8 – 2.0lbs/ft <sup>3</sup>	
Yield	Board Feet	4,000 – 4,500	
Compressive Strength	ASTM D-1621	35 PSI	
Tensile Strength	ASTM D-1623	80 PSI	
Percent Closed Cells	ASTM D-2856	≤ 90%	
Insulation Values	ASTM C- 518	k factor	R value/Inch
		BTU-in/ft <sup>2</sup> -°F-hr	ft <sup>2</sup> -°F-hr/BTU-in
	Aged 180 days	0.151	6.62 Inch
Fungi Resistance	ASTM G- 21	Zero Rating	
Air Permeation	ASTM E -283 (At 75 PA)	Zero Air Leakage	
Dimensional Stability	ASTM D -2126	% Volume Change	
		158°F 100% Relative Humidity, 7 days	<8
		200°F, 7 days	<11
	-20°F, 7days	<1	
Surface Burning	ASTM E-84	Class 1	
Characteristics	(Nominal 5 inches)	≤ 25 flame spread/≤ 450 smoke	
Water Vapor			
Transmission	ASTM E-96	1.11 perm-inches	
Sound Transmission			
Class	ASTM E -90	Class 33	
VOC Testing	CAN/ULC-S774	Pass	

Saskatchewan Research Counsel

\*Typical data is obtained from laboratory samples and values may vary under actual field conditions.

GIT's 2.0 is air impermeable at 75 Pa, as required in IRC 806.4 (2006). These flame spread ratings are not intended to reflect hazards presented by this or any other material under actual fire conditions.

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