

GREEN INSULATION TECHNOLOGIES. LLC .

1.0 Pound Foam

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Product Description

Green Insulation Technologies 1.0 is a two component, low density, non-ozone depleting polyurethane foam insulation for use in the construction of energy efficient buildings and homes. For ideal performance follow these technical recommendations.

Equipment

GIT's 1.0 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 10-12 lbs 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.

Mixing

GIT's 1.0 must be continuously mixed to ensure MAXIMUM YIELD and processing characteristics. Mixing MUST be initiated prior to circulating the material. We recommend using a 1- 1 1/2 HP air or electric motor with two four inch collapsible blades. If the material is allowed to sit for more than 12 hours, material in the resin hose must be poured into the mixing resin drum. Some polyurethane systems are not compatible. Therefore, it is VERY IMPORTANT when switching between two systems that the equipment and hoses MUST BE thoroughly flushed with the new material.

Processing Temperature and Humidity

GIT's 1.0 may be applied between ambient temperatures of 40° F and 110° F and relative humidity less than 80%. DO NOT apply 1.0 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	
Material Temp	70- 105°F	

Material Storage

GIT's 1.2 components MUST be stored between 50 -90 ° 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 1.2 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 1.2 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	150-250
<u>Mix Ratio</u>	<u>By Volume</u>
A- Component	100
B- Component	100

Typical Physical Properties

Yield 6,000 – 8,000 board feet (Individual results may vary)

Density	ASTM D-1620	Nominal 0.5lbs/ft ³	
R Value	ASTM C-177	5.0/inch	
Compressive strength	ASTM D-1621	18 PSI	
Perm Rating	ASTM C-155	2.3	
Percent Closed Cells	ASTM D-2856	≤ 50%	
Insulation Values ASTM	ASTM C- 518	k factor	R value/Inch
		BTU-in/ft ² - °F-hr	ft ² - °F-hr/BTU-in
	Aged 180 days	0.27	5.0 Inch
Fungi Resistance	ASTM G-21	Zero Rating	
Surface Burning	ASTM E-84	Class 1	
Characteristics	(Nominal 5 inches)	≤25 flame spread/≤ 450 smoke	

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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