

# GREEN INSULATION TECHNOLOGIES. LLC .

## 0.5 Pound Foam

11614 State Route 88

Garrettsville, OH 44231

P.O. Box 6

330-527-3626

### **Product Description**

Green Insulation Technologies 0.5 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 0.5 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 0.5 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 0.5 may be applied between ambient temperatures of 40° F and 110° F and relative humidity less than 80%. DO NOT apply 0.5 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 0.5 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 0.5 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 0.5 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>Bv Volume</u> |
| A- Component     | 100              |
| B- Component     | 100              |

## Typical Physical Properties

Yield 15,000 board feet (Individual results may vary)

|                        |                    |                                |  |
|------------------------|--------------------|--------------------------------|--|
| Density                | ASTM D-1620        | Nominal 0.5lbs/ft <sup>3</sup> |  |
| Percent Closed Cells   | ASTM D-2856        | ≤ 90%                          |  |
| Insulation Values ASTM | 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      | 0.27                           | 3.8 Inch   |
| Fungi Resistance       | ASTM G-21          | Zero Rating                    |  |
| Surface Burning        | ASTM E-84          | Class 1                        |  |
| Perm Rating            | ASTM C-155         | 1.8                            |  |
| Sound Transmission     | E 413-87           | 50                             |  |
| Noise Reduction        |                    |                                |  |
| Coefficient            | C423               | 75                             |  |
| Air Permeance          | ASTM E-283         |                                | 3.25 Inch Sample<br>0.0080 L/s- m <sup>2</sup> @75pa<br>5.25 Inch Sample<br>0.0049 L/s- m <sup>2</sup> @75pa |
| Characteristics        | (Nominal 4 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.

Disclaimer: Information contained herein is, true and accurate, but all recommendations or suggestions are made without guarantee. Green Insulation Technology products are intended for sale to residential and commercial customers. Since Green Insulation Technology exercises not control over it's customer appreciation or use of the product manufactured by Green Insulation Technology and since materials used with the products may vary, it is understood that Green Insulation Technology can warrant only that our products will meet our written specifications. Nothing herein shall constitute any warranty of merchantability or fitness, nor is protection from any low or patent to be inferred. All patent rights are reserved. Green Insulation Technology requests that customers inspect and test our products before use. And satisfy themselves as to contents and suitability. The exclusive remedy for all proven claims is replacement of our materials and in no event shall Green Insulation be liable for any consequential, incidental, indirect, or special damages resulting in any manner form the furnishing of the material. 5/18/09.