

## Product Specification

FOR TRIPOLYMER INC. INJECTION FOAM INSULATION FOR WALLS AND OTHER CAVITY INSULATION.

### A. DISTRIBUTION

Foam-in-place insulation shall be **TRIPOLYMER INC. INJECTION FOAM INSULATION** distributed by **TRIPOLYMER INC.** Both the A component (resin) and B component (catalyst) shall bear the manufacturing date and product descriptions.

### B. MATERIAL

The foam-in-place **TRIPOLYMER INC. INJECTION FOAM INSULATION** system shall consist of the A component (resin) and B component (catalyst) supplied by **Tripolymer Inc.** Thickness shall be in accordance with architectural drawings. Please see the chart below for further details regarding the insulation's physical properties.

### C. INSTALLATION

Materials shall be installed according to the distributors instructions through equipment distributed by **Tripolymer Inc.** and installed by a trained/certified insulation contractor with a current certification certificate.

### D. PRODUCT DESCRIPTION

**TRIPOLYMER INC INJECTION FOAM INSULATION** products are a phenolic-based methylene linked synthetic polymers. The **TRIPOLYMER INC INJECTION FOAM INSULATION** system consists of two components: an aqueous resin solution (A) and foaming agent/ catalyst (B). These materials are ratioed together with compressed air in specially engineered metering and pumping equipment.

### E. INSTALLATION

**TRIPOLYMER INC. INJECTION FOAM INSULATION** can be installed in any cavity through 5/8" - 3" holes or sprayed into new stud construction. Initial set takes approximately 10 - 30 seconds. Final curing is within 48 - 72 hrs., depending upon thickness. **TRIPOLYMER INC INJECTION FOAM INSULATION** is a cold-setting process independent of ambient temperatures. There is no further expansion once the foam leaves the delivery hose.



**TRIPOLYMER INC INJECTION FOAM INSULATION** is installed by a network of certified insulation applicators. Specially engineered equipment has been designed by **Tripolymer Inc.** for the application of **TRIPOLYMER INC INJECTION FOAM INSULATION** and is required in the installation of the foam.

## F. THERMAL STABILITY

There is no thermal degradation or reduction in R value over time with **TRIPOLYMER INC INJECTION FOAM INSULATION** products. Most polyisocyanurates, polyurethane, and expanded polystyrenes degrade over time, resulting in lower R values.

### PRODUCT TESTING and TESTING METHODS

Properties	ASTM Test Method	Results
<b>Thermal Conductivity</b>	ASTM C-518	
R, Hr. - ft. <sup>2</sup> - °F/BTU		
@ 75°F mean		4.32
@ 55° mean		4.58
@35°F mean		4.84
@0°F mean		5.10
<b>Surface Burning Characteristics</b>	ASTM E-84	
Flame Spread		5
Smoke Development		0
Fuel Contribution		0
<b>Fungi Resistance</b>	ASTM G21	Resistant
Properties		Results
<b>Density</b>	lbs./ft. <sup>3</sup>	0.9-1.9
<b>Dimensional Stability</b>	Variable	0.5%-1.5%
<b>Open Cell Content</b>	Variable	50-60%
<b>Closed Cell Content</b>	Variable	40-50%
<b>Toxicity</b>		Non Toxic
<b>Color</b>		White/Off White/ Beige
<b>Weight</b>	lbs./ft. <sup>3</sup>	.9 -1.9 lbs./ft <sup>3</sup> (Dry Foam)

1. R-Value means resistance to heat flow. The higher the R-value the greater the insulating power. For exact R-values at varying thicknesses please consult Tripolymer Inc.
2. This numerical flame spread is not intended to reflect hazards presented by this or any other material under actual fire conditions.
3. Additional test data and time/temp curve on wall designs available upon request

## G. THERMAL RESISTANCE - CMU BLOCK TRIPOLYMER INC INJECTION FOAM INSULATION utilized in CMU construction.

Exposed block both sides, values higher with lighter density aggregate and lower with heavier density aggregate.



Thickness	Cores Empty	With TRIPOLYMER INC INJECTION FOAM INSULATION			
6"	2.3	(9.72 @ 80 lbs)	(6.58 @ 105 lbs)	(5.93 @ 115 lbs)	(4.18 @ 135 lbs)
8"	2.49	(11.27 @ 80 lbs)	(8.21 @ 105 lbs)	(7.22 @ 115 lbs)	(4.97 @ 135 lbs)
10"	2.61	(14.22 @ 80 lbs)	(10.26 @ 105 lbs)	(8.97 @ 115 lbs)	(6.08 @ 135 lbs)
12"	2.73	(16.11 @ 80 lbs)	(11.42 @ 105 lbs)	(9.94 @ 115 lbs)	(6.65 @ 135 lbs)

(All calculations above are taken from the National Concrete Masonry Association TEK Sheet # 101)

*Tripolymer Inc. Injection Foam Insulation Products are completely unique –  
No other product compares to the benefits, features, and ease of use!*