

# ALPINE FOAM

## CLOSED CELL POLYURETHANE INSULATION

### Alpine Foam 1.7

#### PRODUCT DESCRIPTION

Alpine Foam 1.7 is a low-density, two-component, rigid polyurethane spray-foam system designed for insulating applications. It has a Class I ASTM E84 flame rating and is easily processed by most commercially available, airless, two-component, heat-controlled, urethane-spray equipment. This system yields excellent coverage with a very smooth foam surface.

#### TYPICAL CHEMICAL ANALYSIS

##### "A" Component

Viscosity, 74° F; cps. ASTM D-1638	250
Physical State	Liquid
Color	Dark Brown
Hygroscopicity	Reacts with water and evolves CO <sub>2</sub> gas

##### "B" Component

Viscosity, 74° F; cps. ASTM D-1638	1200 - 1500
Physical State	Liquid
Color	Dark Brown
Hygroscopicity	Absorbs water, thus changing ratio

#### REACTION PROFILE

##### Hand Mix

##### 100 grams, 74° F. Sample:

Cream Time, seconds	3 - 4
Tack Free Time, seconds	8 - 10
Rise Time, seconds	14 - 17
Free Rise Density, lbs/ft <sup>3</sup>	1.9

#### RECOMMENDED EQUIPMENT SETTINGS

"A" Component Temp.	115° F minimum
"B" Component Temp.	115° F minimum
Hose Temp.	115° F minimum
Application Pressure	1200 psi

#### TYPICAL PHYSICAL PROPERTIES

##### Sprayed Sample

Density, core; lbs/ft <sup>3</sup>	
ASTM D-1622 @ 74° F	1.70 - 1.90
Theoretical Yield	3.35 ft <sup>2</sup> /lb @ 2.0" thickness
Compressive strength	
ASTM D-1621 @ 74° F	
Parallel to rise, minimum, psi	12 - 19
k - Factor, initial; BTU-in/hr-ft <sup>2</sup> - ° F	
ASTM C-177 @ 74° F	0.145
Closed cell content:	
% - ASTM D-1940 @ 74° F	>90
Burning Characteristics (Ref #T189B, Report #05-05252)	
ASTM E84	
Flame Spread Index	20
Smoke Developed	400

#### MATERIAL METERING RATIOS

##### Parts by volume (total mix 100 parts)

"A" Component	50 parts
"B" Component	50 parts

##### Parts by weight (total mix 105 parts)

"A" Component	55 parts
"B" Component	50 parts

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