

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 ₂ 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 ³	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 ³	
ASTM D-1622 @ 74° F	1.70 - 1.90
Theoretical Yield	3.35 ft ² /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 ² - ° 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

Revised: 03/07

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