



TECHNICAL DATA SHEET HEATLOK 217-0 Class I Rigid Spray foam System

SPRAY APPLIED POLYURETHANE FOAM

HEATLOK 217-0 is a two component spray-applied rigid polyurethane foam system specially formulated using zero Ozone Depletion Potential (ODP) blowing agents (245fa and water) to meet the CLASS I requirements in accordance to ASTM E-84. This product is developed for air sealing (Air Barrier) and thermal insulation applications. For identification purposes, a blue dye is added to the resin to give the final product (foam) a green color.

PHYSICAL PROPERTIES			
Method	Description	British units	SI units
ASTM D1622	Density (core)	2.2 lb/ft ³	35 Kg/m ³
ASTM C518	Thermal Resistance(30 days aging) (R-Value per inch)	6.24 ft ² .h.°F/BTU	1.10 m ² .°C/W
ASTM D2856	Closed Cell Content	> 92%	
ASTM D1621	Compressive Strength (parallel)	22 psi	152 kPa
ASTM D1623	Tensile Strength	52.2 psi	360 kPa
ASTM D2126	Dimensional Stability (7 days) 158°F (70°C), ambient R.H. 158°F (70°C), 97% R.H. -22°F (-30°C), ambient RH	% Volume Change - 0.1 + 3.6 - 1.3	
ASTM D2842	Water Absorption (96 hrs. immersion)	1.0 % Volume	
ASTM E96	Water Vapor Permeance	0.40 perms	22.9ng/Pasm ²
ASTM E84	Surface Burning Characteristics, 3" thick(max) Flame spread index Smoke developed	Class 1 20 450	

The information herein is to assist customers in determining whether our products are suitable for their applications. We request that customers inspect and test our products before use and satisfy themselves as to contents and suitability. Nothing herein shall constitute a warranty, express or implied, including any warranty of merchantability or fitness, nor is protection from any law or patent infringement. All patent rights are reserved. The foam product is combustible and must be covered by an approved thermal barrier. Protect from direct flame and sparks contact. The exclusive remedy for all proven claims is replacement of our materials.

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June 2006

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LIQUID COMPONENTS PROPERTIES		
PROPERTY	ISOCYANATE A 100	RESIN B 217-0
Color	Brown	Dark Blue
Viscosity @ 77°F	150 – 250cps	150 – 350cps
Specific gravity	1.20 – 1.24	1.20 – 1.24
Shelf life*	6 months	6 months
Mixing ratio (volume)	100	100

* See MSDS for more information.

Note: Store the Resin (B 217-0) at temperatures below 85°F. Keep away from direct sunlight.

PROCESSING PARAMETERS		
Type of machine	Graco-Gusmer H20/35PRO, Fusion gun, # 02 mix chamber	
Components A&B Temperature	105⁰F	40⁰C
Components A & B pressure	1000psi	6895 kPa
Ambient temperature	68⁰F	20⁰C
Thickness per pass	1¼ in	35 mm
Number of passes	2	
Substrate	Plasterboard	

REACTIVITY PROFILE			
Cream time, s	Gel time, s	Tack free time, s	End of rise, s
0 – 1	2	5 – 6	5 – 6

RECOMMENDED PROCESSING CONDITIONS		
	British units	SI units
Mixing ratio A/B	1/1	
Mixing temperature	105°F	40°C
Mixing pressure	1000 psi	6895 kPa
Substrate & Ambient temperature	> 25°F	> (-4) °C
Maximum thickness per pass*	2in	51mm

* Allow at least 20minutes between passes for heat to dissipate

GENERAL INFORMATIONS
It is recommended that the foam is covered with an approved thermal barrier in accordance to the local and national building codes when used in buildings and a protective coating when used outside. This product should not be used when the continuous service temperature of the substrate is outside the range of -60°C to 82°C. Spraying too thick sections too fast may result in charring of the foam, or in extreme conditions a fire may result.

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