B-233

TECHNICAL DATA SHEET

B-233 is a two component, closed cell, spray applied, rigid polyurethane foam system specially formulated to meet the zero ozone depletion potential (ODP) requirements of the Montreal Protocol and designed for applications requiring a minimum compressive strength of 40 psi. This SPUF system produces foam that has a smooth top surface that is acceptable for walking on top of. This new environmentally friendly generation of high density spray foam contains raw materials made from recycled PET plastic material and renewable materials such as glycerin, sugar & soy and it uses zero ODP blowing agents material.

PHYSICAL PROPERTIES			
ASTM D 1622	Density	3.0 lb/ft³	48.0 kg/m³
ASTM C 518	Initial Thermal Resistance (R-value @ 1 inch)	7.0 ft²h°F/BTU	1.24 Km²/W
ASTM D 1621	Compressive Strength	40 psi	276 kPa
ASTM D 2856	Closed Cell Content	> 92%	
ASTM D 2126	Dimensional Stability 176°F (80°C), Ambient Relative Humidity 158°F (70°C), 97 33% Relative Humidity -4°F (-20°C), Ambient Relative Humidity	(% volume change) -1.3 +0.6 +0.1	

LIQUID COMPONENT PROPERTIES*		
PROPERTY	**ISOCYANATE**	**B-233 RESIN**
Color	Brown	Greenish/Bluish
Viscosity @ 77°F (25°C)	150 – 250 cps	370 – 470 cps
Specific Gravity	1.20 – 1.24	1.19 – 1.21
Shelf Life of unopened drum properly stored	6 months	6 months
Storage Temperature	59 – 77°F (15 – 25°C)	59 – 77°F (15 – 25°C)
Mixing Ratio (volume)	1:1	1:1

*See SDS for more information.

REACTIVITY PROFILE			
Cream Time	Gel Time	Tack Free Time	End of Rise
0 – 1 seconds	4 – 5 seconds	6 – 7 seconds	6 – 7 seconds

RECOMMENDED PROCESSING CONDITIONS*		
Initial Primary Heater Setpoint Temperature	112°F	44°C
Initial Hose Heat Setpoint Temperature	112°F	44°C
Initial Processing Setpoint Pressure	800 psi	5516 kPa
Substrate & Ambient Temperature	> 59°F	> 15°C
Moisture Content of Substrate	≤ 19%	≤ 19%
Moisture Content of Concrete	Concrete must be cured, dry and free of dust and form release agents.	

*Foam application temperatures and pressures can vary widely depending on temperature, humidity, elevation, substrate, equipment and other factors. While processing, the applicator must continuously observe the characteristics of the sprayed foam and adjust processing temperatures and pressures to maintain proper cell structure, adhesion, cohesion and general foam quality. It is the sole responsibility of the applicator to process and apply B-233 within specification.

General Requirements: Equipment must be capable of delivering the proper ratio (1:1 by volume) of polymeric isocyanate (PMDI) and polyol blend at adequate temperatures and spray pressures. Substrate must be at least 5 degrees above dew point, with best processing results when ambient humidity is below 80%. Substrate must also be free of moisture (dew or frost), grease, oil, solvents and other materials that would adversely affect adhesion of the polyurethane foam. Due to the exothermic reaction of the isocyanate and polyol blend, mixed components should be applied in layers (maximum 2" thickness per layer). Allow foam to cool completely before applying successive layers.

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