

TECHNICAL DATA SHEET

SEALECTION® 500

INSULATION

SEMI-RIGID, SPRAY-APPLIED POLYURETHANE FOAM

SEALECTION® 500 is a two-component, open celled, spray-applied, semi-rigid polyurethane foam system. This product is a fully water-blown foam system having a very low in-place density. **SEALECTION® 500** meets the off gassing requirements of CGSB 51.23-92 for new residential construction. **SEALECTION® 500** has been approved by the EcoLogo[™] (formerly Environmental Choice) Program of Canada and is listed as a **Certified Green Product**. **SEALECTION® 500** complies with the intent of the U.S. residential and commercial building codes for foam plastics insulation.

PHYSICAL PROPERTIES		
ASTM	Description	Value
D 1622	Density	0.45 – 0.5 lb/ft³
C 518	Thermal Resistance 2 days @ 76° F, per inch	3.81 ft².h°F/BTU
	Thermal Resistance 90 days @ 76° F, per inch	3.81 ft².h°F/BTU
E 283-04	Air Leakage (Air Impermeable IAW 2006 IRC requirements)	
	3.5" @ 75Pa (25 mph wind)	0.001 L/s·m²
	5.5" @ 75Pa (25 mph wind)	0.001 L/s·m²
	10" @ 75Pa (25 mph wind)	0.002 L/s·m²
	Sustained Wind Load for 60 minutes @ 1000 Pa (90 miles/hr. wind)	No Damage
	Gust Wind Load Test @ 3000 Pa (160 miles/hr.)	No Damage
D 1621	Compressive Strength	0.7 psi
D 1623	Tensile Strength	5.6 lbs/in²
E 413-87 (1999)	Sound Transmission Class (STC)	49-51 Based on Specific wall design
C 423	Noise Reduction Coefficient (NRC)	75
E 96	Water Vapor Transmission (Class III Vapor Retarder at normal installed thicknesses)	
	3.5"	6.6 Perms
	5.5"	4.2 Perms
	7"	3.3 Perms
	10"	2.3 Perms
CGSB 51.23-92	Off Gassing Tests (VOC Emissions)	Pass (No toxic vapors)
E 84	Surface Burning Characteristics (6")	Class I
	• Flame Spread Index	21
	• Smoke Development	216

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 inferred. All patent rights are reserved. The foam product is combustible and must be covered by an approved thermal barrier. The exclusive remedy for all proven claims is replacement of our materials.

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LIQUID COMPONENTS PROPERTIES

PROPERTY	ISOCYANATE A 500	RESIN B 500F
Color	Brown	Transparent Clear
Viscosity @ 77°F	180 - 220 cps	150-300 cps
Specific gravity	1.22-1.25	1.09-1.11
Shelf life*	6 months	6 months
Mixing ratio (volume)	100	100

* Drum unopened, consult MSDS for more information.

All Properties were measured on core samples processed with the parameters listed below:

PROCESSING PARAMETERS

Type of machine	Graco Reactor E-30 with Fusion Gun and 02 Mixing chamber	
Primary heater (A&B)	130°F	54.5°C
Hose temperature	130°F	54.5°C
Ambient temperature	70°F	21°C
Thickness of passes	Full thickness of application	Full thickness of application
Substrate	Plaster board	

REACTIVITY PROFILE

Cream time, s	Gel time, s	Tack free time, s	End of rise, s
1 - 2	3 - 4	6 - 7	6 - 7

RECOMMENDED PROCESSING CONDITIONS

	Value
Primary Heater	130°F
Hose temperature	130°F
Pressure	1000 psi
Substrate & Ambient temperature	> 23°F
Curing temperature	> 23°F

GENERAL INFORMATION:

It is recommended that the foam be covered with an approved thermal barrier in accordance with the local and national building codes when used in buildings. This product should not be used when the continuous service temperature of the substrate is outside the range of -60°F (-51°C) to 176°F (80°C).