

LIGHT DENSITY • OPEN CELL SPRAY FOAM INSULATION

Thermoseal 800

Thermoseal 800 is a two component, semi-rigid, totally water blown, .75lb light density polyurethane foam insulation system which simultaneously insulates and air-seals your building structure. Thermoseal 800 requires the use of an "A" component (ISO) and a blended "B" component (RESIN), which contains ZERO ozone depleting blowing agents, catalysts, polyols and fire retarding materials. Thermoseal 800 is designed to make homes more energy efficient, quieter, healthier and more comfortable. Thermoseal 800 is applied as a liquid spray which expands approximately 75 times its initial mass and cures within seconds into a semi-rigid mass. Thermoseal 800 fills all building cavities completely, sealing all cracks, crevices, and voids where air loss and infiltration are most common. If needed, excess material is easily trimmed off leaving a surface ready for drywall.

PHYSICAL PROPERTIES

PROPERTY	VALUE	TEST METHOD
R-Value	4.5 @ 1"	ASTM C 518
Core Density	0.75 LB / Cubic Foot	ASTM D 1622
Open Cell Content	> 75%	ASTM D 6226
Sound Transmission Coefficient	38	ASTM E 413
Water Vapor Permanence	5.92 Perms at 3.5"	ASTM E 96
Noise Reduction Coefficient	0.65	ASTM C 423
Tensile Strength (PSI)	5.7	ASTM D 1623
Dimensional Stability	< 3.15%	ASTM D 2126
Air Permeance (air impermeable per IRC, IBC & IECC requirements)	<0.02 L/sm ² @ 75 Pa/3.5"	ASTM E 283 & E 2178

FIRE PROPERTIES



PROPERTY	VALUE	TEST METHOD
Surface Burning Characteristics • Flame Spread • Smoke Index	Class 1 Pass <25 / <450	ASTM E 84
Ignition Barrier • Evaluation Report, IAPMO ES. Pass using DC315 manufactured by International Fireproof Technology, Inc at 6 Wet Mils - 4 Dry Mils coverage rate of .38 gals /100 sq. ft.	IAPMO ER-0603	ICC-ES AC377 Appendix X
Thermal Barrier • Evaluation Report, IAPMO ES. Pass using DC315 manufactured by International Fireproof Technology, Inc at 18 Wet Mils - 12 Dry Mils coverage rate of 1.2 gals/100 sq. ft. (4.2L/9.2m)	IAPMO ER-0603	NFPA 286

Storage and Processing Information

RECOMMENDED PROCESSING PARAMETERS

Recirculation Target	77°F - 90°F	25°C - 32°C
Primary Heater Target (Initial)	129°F	54°C
Primary Hose Target (Initial)	129°F	54°C
Target Processing Pressure	1200 psi	8274 kPa
Substrate & Ambient Temp	>32°F	>0°C
Moisture Content of Substrate • Must be clean and free of dust and debris	<18%	<18%
Moisture Content of Concrete	<10%	<10%

LIQUID COMPONENT PROPERTIES

PROPERTY	A SIDE – PMDI	B SIDE – THERMOSEAL 800
Color	Brown	Amber
Viscosity @ 77°F (25°C)	185 - 230 cps	250 - 390 cps
Specific Gravity	1.25	1.14 - 1.19
Storage Temperature	50°F-80°F (10°C-27°C)	50°F-80°F (10°C-27°C)
Mixing Ratio (By Volume)	1:1	1:1
Shelf Life • Of unopened drums stored within specified range	1 Year	180 Days

PROCESSING

Application processing temperatures can vary and are dependent upon indoor ambient temperature, outdoor ambient temperature, substrate temperature, humidity, elevation, substrate type, equipment, and other factors. While manufacturing polyurethane foam plastic on site, the applicator must continuously observe the characteristics of the sprayed foam and adjust the processing temperatures and pressures to maintain optimal cell structure, adhesion, and overall foam quality. It is the sole responsibility of the applicator to manufacture Thermoseal polyurethane foam plastic on-site within our specifications. When applying Thermoseal, all substrates must be 10°F degrees above the dew point and free of all debris including frost, oil, rust, dust, or other debris. The equipment being used must be set to deliver a consistent 1:1 ratio by volume and must be capable of achieving at least 1200 psi and the target processing temperatures outlined in this manual. To maintain warranty status on all Thermoseal products, the Applicator's Thermoseal Training Certificate must be current. Thermoseal Training is free and can be conducted on our website at <http://www.ThermosealUSA.com>.

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