TECHNICAL DATA SHEET





Thermoseal 360

Ultra Light Density • Open Cell Spray Foam Insulation



ThermoSeal 360 is a two component, semi-rigid, totally water blown, .4lb light density polyurethane foam insulation system which simultaneously insulates and air-seals your building structure. Thermoseal 360 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 360 is designed to make homes more energy efficient, quieter, healthier and more comfortable. ThermoSeal 360 is applied as a liquid spray which expands approximately 100 times its initial mass and cures within seconds into a semi-rigid mass. ThermoSeal 360 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	3.9 @ 1"	ASTM C 518		
Core Density	0.42 LB / Cubic Foot	ASTM D 1622		
Open Cell Content	> 97%	ASTM D 6226		
Water Vapor Transmission - Permanence	21 Perms at 1"	ASTM E 96		
Air Leakage Rate	< 0.002 (L/s-m2)	ASTM E 283		
Tensile Strength (PSI)	5.19	ASTM D 1623		
Dimensional Stability	< 5%	ASTM D 2126		
Sound Transmission Coefficient	39	ASTM E 413		
Noise Reduction Coefficient	0.75	ASTM C 423		
Fire Properties				
Property	Value	Test Method		
Surface Burning Characteristics • Flame Spread • Smoke Index	Class 1 Pass <25 <450	ASTM E 84		
Ignition Barrier	• Pass using DC315 manufactured by International Fireproof Technology, Inc at 4 Wet Mils - 3 Dry Mils	ICC- ES AC377 Appendix X		
Thermal Barrier	• Pass using DC315 manufactured by International Fireproof Technology, Inc at (88.88 sq. ft./gal @ 18 mils and 12 mils dry) coverage rate of 1.136 gallons (4.3 L) p 100 square feet (9.3 m2)	NIEDN 186		
Evaluation Report				
Evaluation Report	IAPMO ER-0603	IAPMO ES		

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Storage and Proccessing Information

Liquid Component Properties			
Property	A Side - PMDI	B Side-Thermoseal 360	
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	

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	<20%	<20%		
Moisture Content of Concrete • Must be clean and free of dust and debris	<10%	<10%		

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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