

TECHNICAL DATA SHEET

Material Specification Criteria | Project Submittal Data



ThermoSeal MAX

Medium Density • Closed Cell Spray Foam Insulation

ThermoSeal MAX is a two component, semi-rigid, medium density, 1.7 lb closed cell polyurethane foam insulation system which simultaneously insulates and air-seals your building structure. ThermoSeal MAX requires the use of an "A" component (ISO) and a blended "B" component (RESIN), which contains ZERO ozone depleting catalysts, polyols and fire retarding materials. ThermoSeal MAX is designed for residential, commercial, and industrial building applications to make structures more energy efficient, quieter, healthier and more comfortable. ThermoSeal MAX is applied as a liquid spray and fills all building cavities completely sealing all cracks, crevices, and voids where air loss and infiltration are most common.

Physical Properties

Property	Value	Test Method
R-Value	6.9 @ 1" / 21.0 @ 3"	ASTM C 518
Core Density	1.7 LB / Cubic Foot	ASTM D 1622
Closed Cell Content	>= 90%	ASTM D 2586
Water Vapor Transmission - Permeance	Perms: .8 @ 1" / .23 @ 3.5"	ASTM E 96
Air Leakage Rate	Zero (0) ft ³ /s.ft ² @ 75Pa	ASTM E 283
Compressive Strength (PSI)	43	ASTM D 1621
Tensile Strength (PSI)	50	ASTM D 1623
Dimensional Stability	< 9%	ASTM D 2126
Sound Transmission Coefficient	41	ASTM E-90-85/E 413

Fire Properties

Property	Value	Test Method
Surface Burning Characteristics • Flame Spread / Smoke Index	Class 1 Pass <25 / <450	ASTM E 84
Ignition Barrier	• In Process	ICC- ES AC377 Appendix X
Thermal Barrier	• In Process	NFPA 286 UL 1715

Building Code Certifications

Evaluation Report	TBD	IAPMO
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Storage and Processing Information

Liquid Component Properties

Property	A Side - PMDI	B Side- Thermoseal MAX
Color	Brown	Amber
Viscosity @ 77°F (25°C)	185 - 230 cps	400-520 cps
Specific Gravity	1.25	1.17 - 1.19
Storage Temperature	50°F-75°F (10°C-24°C)	50°F-75°F (10°C-24°C)
Mixing Ratio (By Volume)	1:1	1:1
Shelf Life • Of unopened drums stored within specified range	1 Year	18 Months

Recommended Processing Parameters

Recirculation Target	Do not recirculate. Gradually warm drums to 77°F prior to use.	
Primary Heater Target (Initial)	125°F	52°C
Primary Hose Target (Initial)	125°F	52°C
Target Processing Pressure	1200 psi	8274 kPa
Substrate & Ambient Temp	>14°F (Winter)/ >45 °F (Summer)	>-10°C (Winter)/ >7 °C (Summer)
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>.

DISCLAIMER: To the best of our knowledge, all technical data contained herein is true and accurate as of the date of issuance and subject to change without prior notice. User must contact Thermoseal, llc to verify correctness before specifying or ordering. We guarantee our products to conform to the quality control standards established by Thermoseal, llc. We assume no responsibility for coverage, performance or injuries resulting from use. Liability, if any, is limited to replacement of the product. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY THERMOSEAL USA EXPRESSED OR IMPLIED; STATUTORY, BY OPERATION OF LAW, OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.