

TECHNICAL DATA SHEET

Material Specification Criteria | Project Submittal Data



Thermoseal 2500

Closed Cell Spray Foam Roofing & Insulation System

ThermoSeal 2500 is a two component, semi-rigid, high density, 2.5 lb closed cell polyurethane foam roofing and insulation system which insulates, waterproofs, weatherproofs and air-seals your building's exterior roof. ThermoSeal 2500 is intended for use by experienced, trained, certified polyurethane roofing contractors. ThermoSeal 2500 is applied as a liquid spray which expands approximately 5 times its initial mass and cures within seconds into a semi-rigid mass. ThermoSeal 2500 provides a continuous monolithic surface without thermal breaks. The ThermoSeal 2500 roofing system is intended to be used with either ThermoSeal Acrylic (ARC) or ThermoSeal Silicone (SRC) roof coatings. The ThermoSeal 2500 roofing system provides a self-flashing, seamless roof system with superior wind uplift properties and is strong enough to endure roof foot traffic. ThermoSeal 2500 can be used in both retrofit and new roofing applications.

Physical Properties

| Property | Value | Test Method |
|----------------------------|------------------------|-------------|
| R-Value | 6.3 @ 1" | ASTM C 518 |
| Core Density | 2.5 LB / Cubic Foot | ASTM D 1622 |
| Closed Cell Content | >= 92% | ASTM D 6226 |
| Water Absorbtion | 0.6% | ASTM C 2842 |
| Dimesional Stability | <4% | ASTM D 2126 |
| Compressive Strength (PSI) | 40-45 psi | ASTM D 1621 |
| Tensile Strength (PSI) | 55-65 psi | ASTM D 1623 |
| Wind Uplift | 200 lb.ft ² | CSA 123.21 |

Fire Properties/ Building Code Certifications

| | | |
|---------------------------------------|--------|---------------------------|
| Flame Spread | 40 | ASTM E 84 |
| International Building Code (IBC) | Meets | Roofing and Foam Plastics |
| UL Listing | Listed | TGFU.R26705 |
| UL Listing | Listed | ULEX.R26705 |
| California Bureau of Home Furnishings | Listed | California |
| California Fire Marshall | Listed | California |

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Storage and Processing Information

Liquid Component Properties

| Property | A Side - PMDI | B Side- ThermoSeal 2500 |
|---|------------------------|-------------------------|
| Color | Brown | Amber |
| Viscosity @ 77°F (25°C) | 185-250 cps | 1000-1200 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 | 1 Year |

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 | 45°F - 120°F | 7°C - 49°C |
| Moisture Content of Substrate • Must be clean and free of dust and debris | <10% | <10% |

Processing - Application processing temperatures can vary and are dependent upon 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. Wind velocities in excess of 15 mph may affect the foam surface texture, cure and physical properties as well as cause possible overspray problems. We require that the protective ThermoSeal ARC or SRC coating be applied with both a base coat and a top coat the same day as the foam application to protect the foam from sunlight. 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.

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, Inc to verify correctness before specifying or ordering. We guarantee our products to conform to the quality control standards established by ThermoSeal, Inc. 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. ThermoSeal 2500 is a private label of Accella's Premiseal 250.