



PREMIUM ROOFING SPRAY FOAM

PremiSEAL™ 60

Spray Polyurethane Foam

Overview

PremiSEAL 60 is a sprayed-in-place, nominal 60 psi compressive strength, rigid, HFC-blown, closed-cell spray polyurethane foam (SPF) roofing system. This two-component SPF consists of Carlisle A Component and PremiSEAL 60 B Component. PremiSEAL 60 provides an R-value of 6.3 per inch and a continuous insulation without thermal breaks. PremiSEAL 60 SPF roofing systems provide excellent resistance to foot traffic and wind uplift, are self-flashing and seamless, and the closed-cell nature provides a durable, leak-resistant roofing system.

Intended Uses

PremiSEAL 60 SPF roofing systems can be used in most retrofit and new construction roofing applications. This SPF insulation can also be used for exterior tank and vessel insulation applications. It is used as a roofing system in conjunction with roof coatings from Carlisle Roof Foam and Coatings (CRFC). This product is intended for use by qualified contractors trained in the processing and application of SPF.

Features and Benefits

- Closed-cell SPF provides a fully adhered, monolithic, sustainable air barrier and thermal insulation for the roof
- Lightweight
- Easy to maintain
- Quick installation time
- Enhances wind uplift resistance
- Yields a smooth surface, reducing the need for extra coating
- Excellent adhesion to most surfaces
- Self-flashing, seamless application
- Enhanced durability

Installation

1. SPF roofing systems should be processed through commercially available spray equipment designed for that purpose by a qualified professional applicator. It is the responsibility of the professional applicator to thoroughly understand all equipment, technical information, and safe operating procedures that pertain to SPF.
2. All surfaces to be sprayed with PremiSEAL 60 should be clean, dry, and free of all dirt and contaminants. All metal to which the SPF is applied must be free of oils, grease, etc.
3. Prior to application of the PremiSEAL 60, the substrate should be between 45°–120°F (7°–49°C). Service temperatures for any surface to be sprayed with SPF should not exceed 180°F (82°C). Moisture in the form of rain, fog, frost, dew, or high humidity (>85%R.H.) will adversely affect the polyurethane foam formation and physical properties of the finished product. Wind velocities of excess of 15 mph may affect the foam surface texture, cure, and physical properties, as well as cause possible overspray problems.
4. A and B Component Preheaters should be set at 125°–130°F (51°–54°C); hose heat should be set to maintain these temperatures. Set the dynamic fluid pressure at 1,000 to 1,200 psi. Mixing ratio through the Proportioner is 1:1 by volume. 2:1 Transfer Pumps are recommended to provide positive feed from the material to the Proportioner. These are recommended initial settings and may vary based on specific conditions.
5. Each “pass” or layer of the SPF should be at least 0.5 inches (13 mm) thick and no more than 1.5 inches (38 mm) thick. Allow at least 10 minutes between each pass for cure and cooling. Multiple layers can be applied to reach the desired thickness and insulation value, as well as to facilitate positive drainage.
6. The finished surface of the PremiSEAL 60 must be protected from the adverse effects of sunlight (UV), which can cause discoloration and degradation. The protective coating or covering should be applied over the SPF the same day as application or within 24 hours. A variety of protective coatings designed for use with PremiSEAL 60 are available from CRFC.

Review Carlisle Roof Foam and Coatings' specifications and details for complete installation information. Please contact CRFC for more information.



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Reactivities

| PremiSEAL 60 Reactivities | Recommended Ambient Temp Range |
|-----------------------------|--------------------------------|
| PremiSEAL 60 VS (Very Slow) | 100° – 125°F (38° – 52°C) |
| PremiSEAL 60 S (Slow) | 85° – 110°F (29.5° – 43°C) |
| PremiSEAL 60 R (Regular) | 65° – 90°F (18° – 32°C) |
| PremiSEAL 60 F (Fast) | 50° – 75°F (10° – 24°C) |
| PremiSEAL 60 VF (Very Fast) | 40° – 55°F (4.5° – 13°C) |

Precautions

- PremiSEAL 60 is not designed for interior insulation applications.
- In addition to reading and understanding the A and B Component Safety Data Sheet (SDS), all applicators must use appropriate respiratory protection as well as Personal Protective Equipment (PPE) when handling and processing polyurethane chemical systems.
- Large masses of SPF should be removed to outside safe area, cut into smaller pieces, and allowed to cool before discarding to prevent heat build-up and potential fire hazard.
- SPF is combustible. Heat sources such as welding, cutting, or roofing torches must not be used in contact with or in close proximity to PremiSEAL 60 or any SPF.
- Protect the A and B Components from moisture contamination.
- Application should not take place within 5°F (-15°C) of the dew point.

Typical Physical Properties

| Property | Test Method | PremiSEAL 60 |
|---------------------------------|--------------|-------------------------|
| Compressive Strength | ASTM D1621 | 50 – 60 psi |
| Tensile Strength | ASTM D1623 | 65 – 75 psi |
| Thermal Resistance (R-Value) | ASTM C518 | 0.158 k (6.3 per inch) |
| Dimensional Stability | ASTM D2126 | < 4% |
| Water Vapor Permeability | ASTM E96 (A) | 1.4 perms @ 1 inch |
| Water Absorption | ASTM C2842 | 0.6% |
| Closed Cell Content | ASTM D6226 | 94% |
| Core Density | ASTM D1622 | 2.7 – 2.8 lbs. /cu. ft. |
| Surface Burning Characteristics | ASTM E84 | 40 FSI |

Typical properties and characteristics are based on samples tested and are not guaranteed for all samples of this product. This data and information is intended as a guide and does not reflect the specification range for any particular property of this product.



Liquid Properties and Characteristics

| | |
|------------|--|
| Packaging | A Component is packaged at 551 lbs. per 55-gallon drum B Component is packaged at 500 lbs. per 55-gallon drum |
| Shelf Life | 12 months for A Component when stored in original unopened containers in dry area between 40°F (4.5°C) and 80°F (26.7°C) 6 months for B Component |

Ratings and Approvals

| |
|--|
| Meets ASTM C1028 – Type III Standard criteria |
| Meets TAS 110 criteria |
| UL 790 – R26705 Listings |
| UL 790 – R26705 Certified for Canada |
| UL EX R26705 Evaluation Report |
| CA BEARHFTI Listed |
| FM 4470 Approved |
| Miami-Dade NOA |
| Florida Product Approval |
| Texas Department of Insurance (TDI) Product Evaluation |

LEED® Information

| | |
|--------------------------------|------------------|
| Pre-Consumer Recycled Content | 2.5% |
| Post-Consumer Recycled Content | 6.5% |
| Manufacturing Location | Cartersville, GA |
| Rapidly Renewable Resources | 0% |

Shipping Information

| Container Size | Gross Weight | Class |
|---|--|-------|
| 1051 lbs. set A & B net – 55-gallon drum (208.2L) | A Component – 591 lbs. (268 Kg) B Component – 540 lbs. (245 Kg) | 55 |
| D.O.T. Classification: Liquid Plastic Material - NOIBN | Protect from freezing (40°F/4.5°C) during shipping and storage. | |

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