

Complies with requirements in IBC 1507.14 and IRC R905.14 Spray Polyurethane Foam Roof Coating, ASTM C1029 Type III or IV, D7425

Physical property	Typical value	Test method
Compressive Strength	55-65 psi	ASTM D1621
Tensile Strength	65-75 psi	ASTM D1623
Thermal Resistance (aged 180 days)	6.5°F·ft ² ·h/Btu at mean temperature 24°C (75°F)	ASTM C518
Dimensional Stability (70°C, 97% RH)	< +5.0 % vol.	ASTM D2126
Water Absorption	0.9% vol.	ASTM C2842
Water Vapor Permeance	<2.0 perm (1 inch)	ASTM E96, Proc. B
Density (Core)	2.8-3.0 pcf	ASTM D1622
Open Cell Content	< 6%	ASTM D6226
Closed Cell Content	> 94%	ASTM D6226
Surface Burning Characteristics	20 FSI/450 SDI	ASTM E84

PremiR+ EVO Reactivities	Recommended Ambient Temperature Range
VS (Very Slow)	100° – 125°F (38° – 52°C)
S (Slow)	85° – 110°F (29.5° – 43°C)
R (Regular)	65° – 90°F (18° – 32°C)
F (Fast)	45° – 70°F (7° – 21°C)

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

Approvals and Certifications

- Meets ASTM C1029-Type III, Type IV, and D7425 Standards for Spray Polyurethane Foam
- Meets ICC Acceptance Criteria 377
- Meets IBC/IRC building code requirements for foam plastic roofing systems
- UL 790 – R26705 Listings
- UL 790 – R26705 Certified for Canada
- California BEARHFTI Listed
- UL GreenGuard and GreenGuard Gold Certified

Description

PremiR+ EVO is a sprayed-in-place, high compressive strength, rigid, Low GWP, closed-cell spray polyurethane foam (SPF) roofing system. This two-component SPF consists of PremiR+ EVO B Component resin and A Component. PremiR+ EVO provides an R-value of 6.2 - 6.8 per inch and a continuous insulation without thermal breaks. PremiR+ EVO 70 SPF roofing systems provide excellent wind uplift resistance, are self-flashing, seamless, and the closed-cell nature provides a durable, leak-resistant roofing system. This polyurethane roofing foam does not contain any CFC, HCFC, HFC or ozone depleting blowing agents.

Features and Benefits

- Closed-cell SPF provides a fully adhered, monolithic, sustainable air barrier and thermal insulation
- Lightweight
- Superior yield reduces cost and amount of material required
- Enhanced wind uplift resistance- fully adhered roof system
- Yields a smooth surface, reducing the need for extra coating
- Excellent adhesion to most surfaces
- Self-flashing, seamless application
- Low global warming potential (LGWP) Meets state and US or Canadian federal regulations.

Usage

PremiR+ EVO 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 also available from Henry. This product is intended for use by qualified contractors trained in the processing and application of SPF.

Precautions

In addition to reading and understanding the A and B Components 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 buildup 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 PremiR+ EVO or any SPF.

Protect A and B Components from moisture contamination. Application should not take place within 5°F (3°C) of the dew point.

Application

SPF roof 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 the processing and application of plural component polyurethane foam.

All surfaces to be sprayed with PremiR+ EVO should be clean, dry, and free of all oil, grease, dirt and contaminants.

Prior to application of the PremiR+ EVO, the substrate should be between 45° – 160°F (7° – 71°C). Service temperatures for any surface to be sprayed with SPF should not exceed 180° (82°C). Moisture, such as, rain, fog, frost, dew, or high humidity (>85% R.H.) will adversely affect the SPF formation and physical properties of the finished product. Wind velocities in excess of 15 mph may affect the SPF surface texture, cure, and physical properties, as well as cause possible overspray problems.

A and B Component material heater temperatures should be set according to ambient temperature and substrate conditions. A typical starting range is 110°F (43°C) for the A component and 120°F (49°C) on the B component; 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 equipment and project conditions.

Each “pass” or layer of the SPF should be at least 0.5 inches (13 mm) and no more than 1.5- 2.0 inches (38-51 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.

The surface of the PremiR+ EVO polyurethane foam 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 the SPF is applied, or within 24 hours. A variety of protective coatings designed for use with PremiR+ EVO are available from Henry.

PremiR+™ EVO Spray Polyurethane Foam

Liquid Properties and Characteristics

Packaging	A Component is packaged at 551 lbs. (250 kg) per drum B Component is packaged at 500 lbs. (227 kg) per drum 1,051 lbs. (477kg) per set A & B net
Shelf life	12 months for A Component when stored in original unopened containers in dry area between 50°F (10°C) and 80°F (26.7°C) 6 months for B Component when stored in original unopened containers in dry area between 50°F (10°C) and 80°F (26.7°C)

Product size/packaging

Container Size	Gross Weight	Class
55-gallon drum (208.2L) –	A Component – 591 lbs. (268 Kg)	55
55-gallon drum (208.2L) –	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	

Storage

Protect from freezing (40°F/4.5°C) during shipping and storage.

For more information, visit www.henry.com or for technical assistance call us at 800-486-1278. For more information on the Henry® product warranty and liability disclaimer please visit www.henry.com/warranty. Refer to the Safety Data Sheet prior to using this product. The Safety Data Sheet is available at www.henry.com or by emailing Henry® Product Support at productsupport@henry.com or by calling 800-486-1278.

The technical and application information herein is based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use. Henry® Company data sheets are updated on a regular basis; it is the user's responsibility to obtain and to confirm the most recent version. Information contained in this data sheet may change without notice.