

Enduris™ FoamArmor™ SPF Coating

Protective Silicone Weather Layer for Spray Polyurethane Foam Roofing Systems



Product Description

Enduris FoamArmor silicone roof coating is a high-solids, single-component silicone coating designed for use as the protective weathering layer in spray polyurethane foam (SPF) roofing systems. Applied over properly installed, roofing-grade SPF insulation, Enduris FoamArmor coating provides long-term protection against UV exposure, weathering, and water intrusion while helping to maintain the performance and service life of the roofing system.

Features and Typical Benefits

Performance

- **UV Protection for SPF** - Creates a durable silicone weathering surface that protects spray polyurethane foam insulation from ultraviolet degradation and environmental exposure.
- **Long-Term Weatherproofing Protection** - Provides a seamless protective membrane that helps defend SPF roofing systems from moisture intrusion.
- **Seamless Monolithic System** - Creates a continuous weatherproofing layer with no seams or mechanical fasteners.
- **Provides Thermal Performance** - Protects the underlying foam and helps maintain insulation performance.

Durability

- **Proven Silicone Weatherability** - Excellent long-term resistance to UV radiation, rain, snow, and temperature extremes.
- **Flexible Performance** - Maintains flexibility during thermal cycling and normal roof movement.
- **Ponding Water Resistance** - Suitable for demanding roofing environments where water exposure may occur.

Cool Roof Performance

- **Reflective Roofing Solution** - Supports cool-roof objectives by helping reduce rooftop temperatures.
- **Cool Roof Rated** - Satisfies California Title 24 long-term exposure requirements for Solar Reflectance, Thermal Emittance, and Solar Reflection Index (SRI).

Application

- Single-component formulation.
- No mixing required.
- Low VOC, low odor.
- High-build formulation.
- Spray, roller, or brush application in temperatures as low as 0°F (18°C)
- Broad application window.

Packaging

Enduris FoamArmor coating is currently available in the following containers:

Container Size	Volume	Weight
5 gallon plastic pail	5 gallons, 18.9 liters	54 lbs, 24.5kg
55 gallon chimed steel drum	50 gallons, 208 liters	540 lbs, 245.2kg

Potential Applications

Enduris FoamArmor coating can be applied to itself as well as a variety of clean, structurally sound roofing materials and substrates including: new SPF roofing systems, SPF roof replacement projects, SPF roofing restoration projects, maintenance and recoating of silicone-coated SPF roofs, and SPF flashing and detail work. It can also be applied to: aged single ply membranes (TPO, PVC, EPDM, and CSPE), spray-applied polyurethane foam, acrylic coatings, asphaltic substrates such as modified bitumen, BUR and cap sheet, metal, concrete, and common parapet/coping materials. Asphaltic substrates may require Enduris Asphalt Bleed Blocker to prevent bleed through of asphaltic oils, however the use of the bleed blocker is not required. Perform an adhesion test on each surface type to verify adhesion.

Typical Physical Properties

Typical physical property values of Enduris FoamArmor coating as supplied are set forth in the table below.

Property	Value ⁽¹⁾	Test Method
Solids Content, Volume	90	ASTM D1644-01 (Modified)
Tack-Free Time	45-60 minutes	ASTM D3960
Skin-Over Time	20-25 minutes	WPSTM C-560
Viscosity	15,000 cps	ASTM D2196
Tensile Strength	253 psi (1.74 MPa)	ASTM D2370
Elongation	550%	ASTM D2370
Durometer Hardness Shore A	36	ASTM D2370
VOC	<24 g/L	EPA Method 24
Permeance	5.2 perms	ASTM E96 (BW)
Tear Resistance	32 lbf/in	ASTM D624
Low Temperature Flexibility	Pass	ASTM D522 (B)
Application Temperature Range	0°F to 150°F (-18°C to 66°C)	-
Service Temperature Range	-40°F to +300°F (-40°C to 149°C)	-
Solar Reflectance - Initial	.85	ASTM C1549
Thermal Emittance - Initial	.89	ASTM C1371
SRI Value - Initial	107	ASTM C1549
Solar Reflectance - Aged	.64	ASTM C1549
Thermal Emittance - Aged	.90	ASTM C1357
SRI Value - Aged	77	ASTM E1980
Shelf Life	Min. 24 months	

(1) Typical properties are average data and are not to be used as or to develop specifications.

Roofing System Performance Benefits

- **Waterproofing Protection** - Seamless silicone membrane helps protect SPF roofing systems from environmental exposure.
- **UV Resistance** - Protects SPF insulation from ultraviolet degradation.
- **Thermal Efficiency** - Helps preserve the performance of the underlying insulated roofing assembly.
- **Renewable Roofing Design** - Supports restoration and recoating as an alternative to roof replacement.

SPF Surface Evaluation

Uncoated SPF surfaces that have been exposed to UV rays longer than recommended by the foam manufacturer are to be treated in accordance with the manufacturer's recommendations. If primer is used, it is the contractor's responsibility to verify the silicone will adhere to the primer.

- Verify foam adhesion
- Assess foam surface integrity
- Identify cracks, voids, or blisters
- Confirm drainage conditions
- Complete all required foam repairs

Enhanced Surface Preparation

- Clean and dry
- Fully cured
- Free from contaminants
- Free from deteriorated and off-ratio foam

Damaged foam should be repaired before coating application.

Roof Details & Penetrations

Special attention should be given to:

- Roof penetrations
- Drains
- Curbs
- Perimeter details
- Walls
- Flashings
- Expansion joints

These areas should be reinforced and detailed in accordance with approved roofing system practices.

Coating Coverage

Rather than specifying application rate alone:

Enduris FoamArmor should be applied uniformly to achieve the dry film thickness required by the approved roofing system specification and/or warranty program.

Coverage requirements may vary based on:

- Roof design
- Foam texture
- Warranty term
- System requirements

Application Thickness

Application Rate (theoretical)	Wet Film Thickness	Dry Film Thickness
1 ½ gallons / 100 square feet (5.7 liters / 9.2 square meters)	24 mils (610 microns)	21 mils (533 microns)
2 gallons / 100 square feet (7.6 liters / 9.2 square meters)	32 mils (813 microns)	28 mils (711 microns)
2 ½ meters / 100 square feet (9.5 liters / 9.2 square meters)	40 mils (965 microns)	36 mils (914 microns)

Quality Verification

After application, inspect for:

- Uniform coverage
- Proper film thickness
- Complete encapsulation of foam surfaces
- Proper flashing treatment
- Absence of holidays, pinholes, and voids

Repairs should be completed before project closeout.

Roof Maintenance

To maximize roofing system service life:

- Conduct periodic inspections
- Remove accumulated debris
- Maintain drainage pathways
- Repair damage promptly
- Recoat as required

Qualified Applicators

Enduris FoamArmor coating is intended for application by trained roofing contractors familiar with SPF roofing systems and applicable installation practices.

Customer Service Centers

North America - America, Canada	+1 800 295 2392 Toll free Email: commercial.services@momentive.com
Latin America	Brazil +55 11 5128-4222 Direct Number Email: contato@momentive.com Mexico +52 55 2169 7670 Direct Number Email: commercial.services@momentive.com
EMEIA - Europe, Middle East, Africa, and India	Europe +39 0875 758888 Direct Number Middle East, Africa and India + 91 44 71212207 Direct Number* *All Middle Eastern countries, Africa, India, Pakistan, Bangladesh, Sri Lanka Email: 4information.eu@momentive.com
APAC - Asia Pacific	China 800 820 0202 Toll free +86 21 3860 4928 Direct Number Japan Sales: JP.Silicones@momentive.com South Korea +82 2 3495 2141 Direct Number South East Asia, Australia & New Zealand +60 3 8309 8088 Direct Number* *South East Asia countries (Malaysia, Singapore, Thailand, Indonesia, Vietnam, Philippines, Cambodia, Myanmar / other countries located in Pacific region).
MyMomentive™ Order Management Site	shop.mymomentive.com



THE MATERIALS, PRODUCTS AND SERVICES OF MOMENTIVE PERFORMANCE MATERIALS INC. AND ITS SUBSIDIARIES AND AFFILIATES (COLLECTIVELY "SUPPLIER"), ARE SOLD SUBJECT TO SUPPLIER'S STANDARD CONDITIONS OF SALE, WHICH ARE INCLUDED IN THE APPLICABLE DISTRIBUTOR OR OTHER SALES AGREEMENT, PRINTED ON THE BACK OF ORDER ACKNOWLEDGMENTS AND INVOICES, AND AVAILABLE UPON REQUEST. ALTHOUGH ANY INFORMATION, RECOMMENDATIONS, OR ADVICE CONTAINED HEREIN IS GIVEN IN GOOD FAITH, SUPPLIER MAKES NO WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, (i) THAT THE RESULTS DESCRIBED HEREIN WILL BE OBTAINED UNDER END-USE CONDITIONS, OR (ii) AS TO THE EFFECTIVENESS OR SAFETY OF ANY DESIGN INCORPORATING ITS PRODUCTS, MATERIALS, SERVICES, RECOMMENDATIONS OR ADVICE. EXCEPT AS PROVIDED IN SUPPLIER'S STANDARD CONDITIONS OF SALE, SUPPLIER AND ITS REPRESENTATIVES SHALL IN NO EVENT BE RESPONSIBLE FOR ANY LOSS RESULTING FROM ANY USE OF ITS MATERIALS, PRODUCTS OR SERVICES DESCRIBE HEREIN. Each user bears full responsibility for making its own determination as to the suitability of Supplier's materials, services, recommendations, or advice for its own particular use. Each user must identify and perform all tests and analyses necessary to assure that its finished parts incorporating Supplier's products, materials, or services will be safe and suitable for use under end-use conditions. Nothing in this or any other document, nor any oral recommendation or advice, shall be deemed to alter, vary, supersede, or waive any provision of Supplier's standard Conditions of Sale or this Disclaimer, unless any such modification is specifically agreed to in a writing signed by Supplier. No statement contained herein concerning a possible or suggested use of any material, product, service or design is intended, or should be construed, to grant any license under any patent or other intellectual property right of Supplier covering such use or design, or as a recommendation for the use of such material, product, service or design in the infringement of any patent or other intellectual property right.

Before purchasing or using any Momentive products, please visit www.siliconeforbuilding.com/legaldisclaimer to view our full product and sales disclaimer.

The use of the "TM" symbol designates registered or unregistered trademarks of Momentive Performance Materials Inc., or its affiliated companies.

Copyright 2026 Momentive Performance Materials Inc. All rights reserved.



**Licensed
Partner**