

# Foam-Gard™

SPF + ROOF COATING SYSTEM

## The Ultimate SPF + Roof Coatings Solution

The Foam-Gard System is the preferred spray polyurethane foam (SPF) solution to safeguard commercial and industrial roof surfaces. With its unsurpassed insulative qualities, the Foam-Gard System provides a long-lasting, energy-efficient, and durable air barrier for a variety of roof types including metal, modified bitumen, built-up roofs, single-ply, and concrete.

The Foam-Gard System offers facility managers and property owners a variety of money-saving benefits. It does more than just stop leaks—it effectively reduces maintenance costs, lowers building energy consumption, improves performance, and extends service life.

### Basic Uses

With its superior insulative and adhesion qualities, the Foam-Gard SPF and roof coating system acts as a heat, moisture, and air barrier for variety of commercial and industrial roof substrates. The Foam-Gard System is an incredibly strong and light-weight application and can be applied at varying thickness to add slope and fill in low areas.

### Features/Benefits

- Stops leaks and vastly improves performance
- Provides the highest R-value of any roofing material on the market
- Substantially reduces maintenance and energy costs
- Extends service life by restoring the existing roof membrane
- Industry-leading UV stability, reflectivity, and durability
- Cures to form a seamless, watertight membrane
- Long-term StarGard Warranty plans available
- Provides minimal interruption to business

### Suitable Substrates

- Built-Up Roofs
- Concrete
- EPDM
- Metal
- Modified Bitumen
- Single-Ply

#### SURFACE PREPARATION

To ensure maximum adhesion, the roof is pressure washed to remove all dirt, dust, debris, and other foreign contaminants.

1

#### SPRAY POLYURETHANE FOAM

An application of spray polyurethane foam (SPF) provides an incredibly strong, yet lightweight, insulation barrier with unsurpassed R-value.

2

#### ELASTOMERIC ROOF COATINGS

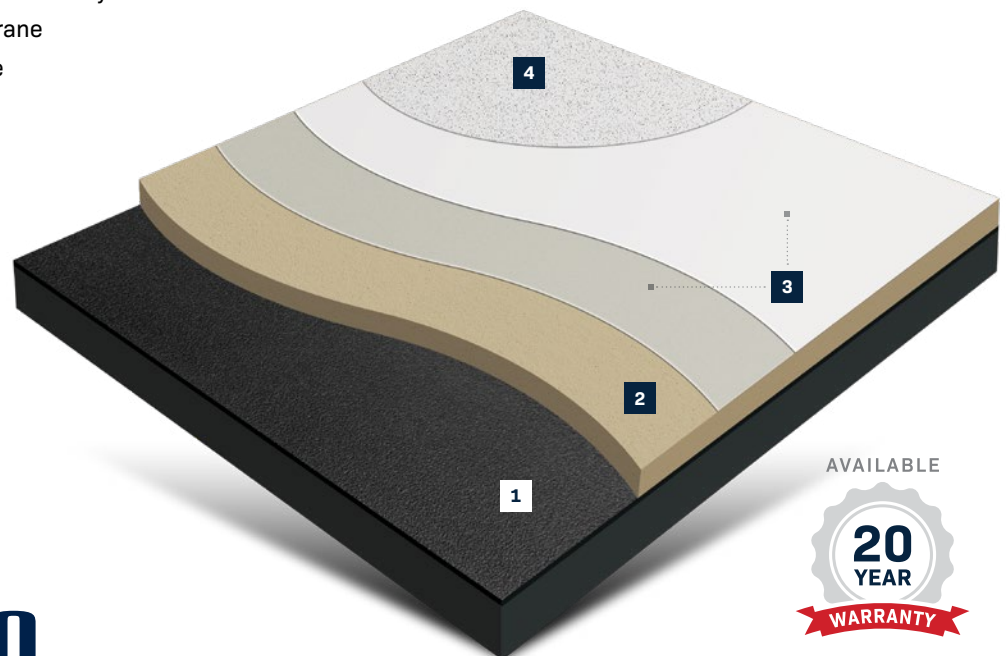
To protect the SPF foundation, multiple coats of elastomeric roof coating are then applied providing UV protection, reflectivity, and supplemental waterproofing.

3

#### ROOFING GRANULES

Roofing granules are then broadcast directly into the elastomeric top coat to increase weather-resistance and durability.

4



AVAILABLE



# QUICK SPEC

## ADHESION TEST

To ensure a successful application, an adhesion test is recommended to ensure maximum adhesion of the Aromatic Urethane 520 base coat to the existing roof substrate(s).

## INSTALLATION TIPS

- All roof surfaces to be restored must be cleaned properly.
- Pressure washing at 3000-4000 psi is recommended.
- Existing coatings must be checked for proper adhesion. Before application, any loosely adhered coating must be removed and bare surfaces must be prepared, cleaned, and checked for compatibility.
- Spray Polyurethane Foam is uniformly spray-applied at a thickness of 1"-1.5" minimum, or more if specified, over the entire roof surface.
- All coating applications must be applied to clean, dry, sound surfaces free of contaminants or other foreign matter.
- Allow 24 hours between coating applications. For technical assistance, please contact your American WeatherStar Field Representative.

## STORAGE

System components should be stored in original unopened containers at Temperatures between 50°F and 75°F.

**Note:** Storage for prolonged periods of time at high temperatures may alter the reactivity profile of the product. Additionally, storing the side-B component at increased temperatures or in direct sunlight for prolonged periods may cause a build-up of pressure in the storage vessel. Containers should be opened slowly to release any pressure buildup.

## TECHNICAL DATA

### ACRYLIC ROOF COATINGS

PROPERTY	ACRYLIC 211	HIGH-TENSILE ACRYLIC 211
Solids by Volume	55% ± 2	55% ± 2
Elongation	233% ± 20	600% ± 50
Tensile Strength	273 ± 20 psi	500 ± 50 psi
Reflectivity	Initial .87	Initial .82

### SILICONE ROOF COATINGS

PROPERTY	SILICONE 410	HIGH-SOLIDS SILICONE 412
Solids by Volume	69% ± 2	96% ± 2
Elongation	318%	170 ± 25
Tensile Strength	500 psi	450 ± 50 psi
Reflectivity	Initial .84	Initial .87

### URETHANE ROOF COATINGS

PROPERTY	ALIPHATIC URETHANE 510	AROMATIC URETHANE 520
Solids by Volume	74%	70% ± 2
Elongation	350%	350 ± 50%
Tensile Strength	1100 ± 25 psi	975 ± 25 psi
Reflectivity	Initial .87	NA

Please see product data sheets for complete technical data.

### FOR SPF RECOATS, REFER TO (SPF RECOAT) APPLICATION GUIDELINE FOR ELIGIBLE WARRANTY TERMS.

SYSTEM	TERM	BASE COAT	INTERMEDIATE COAT	TOP COAT	TOTAL DFT*
Acrylic	10 years	Acrylic 211/HT Acrylic 211	Acrylic 211/HT Acrylic 211	Acrylic 211/HT Acrylic 211	30
	15 years	Acrylic 211/HT Acrylic 211	Acrylic 211/HT Acrylic 211	Acrylic 211/HT Acrylic 211	38
Silicone	10 years	Silicone 410/412	-	Silicone 410/412	20
	15 years	Silicone 410/412	-	Silicone 410/412	30
	20 years	Silicone 410/412	-	Silicone 410/412	40
Urethane	10 years	Urethane 520	-	Urethane 520	30
Urethane Hybrid	10 years	Urethane 520	-	Urethane 510	30
	15 years	Urethane 520	Urethane 520	Urethane 510	40
	20 years	Urethane 520	Urethane 520	Urethane 510	45
Urethane-Silicone (Ure-A-Sil)	12 years	Urethane 520	-	Silicone 410/412	25
	15 years	Urethane 520	-	Silicone 410/412	30
	20 years	Urethane 520	Silicone 410/412	Silicone 410/412	35

\*Dry film thickness (DFT) is rounded to the nearest mil and is theoretical. Actual DFT varies depending on substrate, application technique, and waste factor. In some cases, an application of Acrylic Bonding Primer 905 may be necessary to protect SPF from UV degradation or to promote adhesion.

**NOTE:** This document is intended as an overview of installation procedures only. Please refer to application guidelines for complete installation information. Published technical information is subject to change without notice. Please visit [www.americanweatherstar.com](http://www.americanweatherstar.com) or contact your Field Representative for current technical data.

