

Foam-Gard

SPF + FLUID-APPLIED ROOFING SYSTEM

SPF-URETHANE ROOF RESTORATION SYSTEM

Foam-Gard is a high-density, plural-component, spray polyurethane foam (SPF) and coating roof restoration system designed to stop leaks, improve energy efficiency, and extend roof life. Combining SPF with a urethane top coat provides the system with the ultimate level of insulation performance, adhesion, reflectivity, durability, and elemental protection.

Both lightweight and strong, the Foam-Gard system is a highly-versatile, long-lasting roofing solution that can increase structural integrity and withstand the effects of thermal shock (normal expansion and contraction). It can also indefinitely sustain the pressures of severe weather, heavy equipment, and pedestrian foot traffic.

BASIC USES

Due to its excellent adhesion qualities, the Foam-Gard roof restoration system is ideal for use on a variety of commercial roof substrates. Foam-Gard is light-weight and can be applied in varying thickness to add slope and fill in low areas.

FEATURES & BENEFITS

- Cost less than a conventional roof replacement
- Reduce energy costs by decreasing HVAC system workloads
- Provides a lightweight, weather-resistant, energy-efficient air barrier
- Superior strength and durability—increases structural integrity
- Seamless, fully-adhering, and self-flashing
- Sustainable, long-term warranty options
- Minimal interruption to business

SUITABLE SUBSTRATES

- Metal
- Modified Bitumen
- Smooth BUR
- Single-Ply
- EPDM
- Concrete
- Plywood

APPLICATION PROCESS

1 EXISTING ROOF SURFACE

The roof is pressure-washed to ensure maximum adhesion of the system to the existing roof surface.

2 SPRAY POLYURETHANE FOAM

The High-density, plural-component Spray Polyurethane Foam (SPF) provides the system with a strong, light-weight, high-performance, insulation barrier.

3 BASE COAT

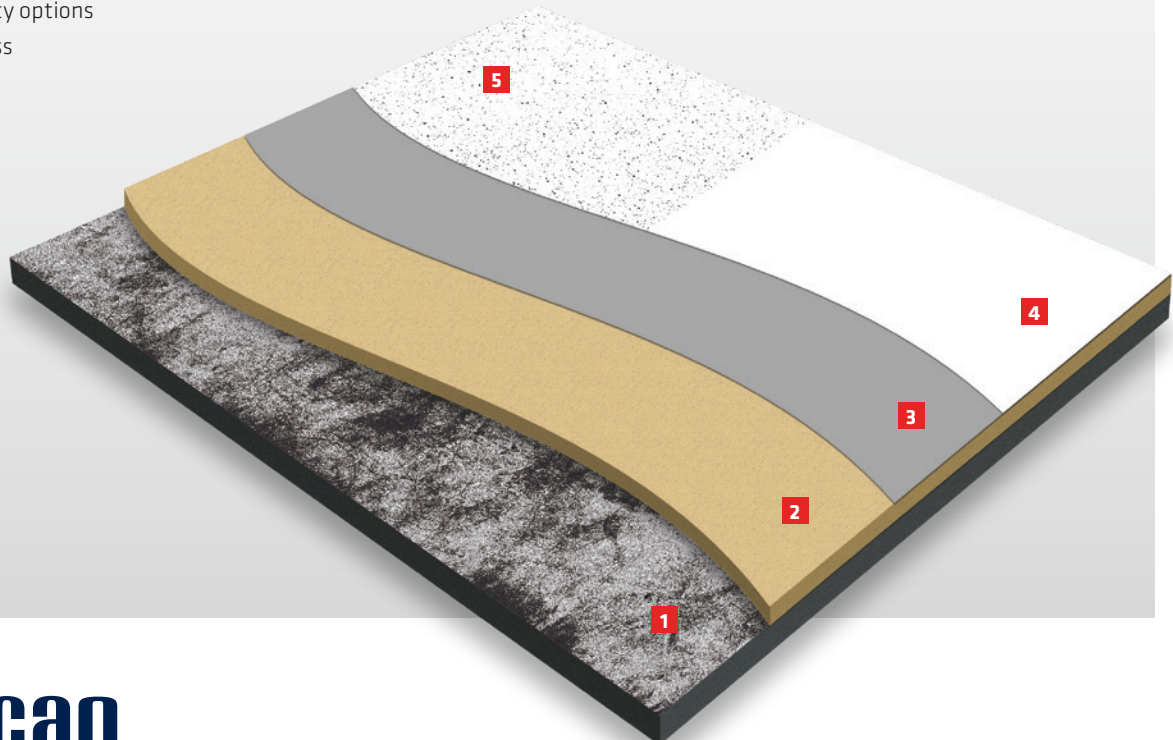
A base coat of Aromatic Urethane 520 helps installers build and maintain uniform mil thickness.

4 TOP COAT

A top coat of Aliphatic Urethane 510 or Aromatic Urethane 520 provides the system with a seamless, bright-white, highly-reflective, and mildew-resistant membrane.

5 ROOFING GRANULES

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



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ADHESION TEST

To ensure successful application, an adhesion test is recommended to ensure maximum adhesion of the spray polyurethane foam to the existing roof substrate(s).

PRE-INSPECTION

Before system application, pre-inspect roof for necessary repairs. Inspection should include, but not be limited to:

- HVAC Flashing
- Proper Drainage
- Single-Ply Seams
- Roof Penetrations
- Sign of Display Anchorage
- Drains & Location of Drains
- Water Leakage
- Seam, Terminators, Reglets
- Parapet Roof Detail
- Wet or Damp Insulation
- Coping and Flashing
- Sleepers & Pitch Pockets

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.
- Base coat and top coat of Aromatic Urethane 520/Aliphatic Urethane 510 must be applied to clean, dry, sound surfaces free of contaminants or other foreign matter.
- Allow 24 hours between coating applications.

COVERAGE RATES

10-YEAR WARRANTY (SPF-URETHANE SYSTEM)

Application	Product	Coverage Rate
Base Coat	Aromatic Urethane 520	1.25 gallon/100 sq. ft.
Intermediate Coat	-	-
Top Coat	Aromatic Urethane 520	1.25 gallon/100 sq. ft.

15-YEAR WARRANTY (SPF-HYBRID URETHANE SYSTEM)

Application	Product	Coverage Rate
Base Coat	Aromatic Urethane 520	1.25 gallon/100 sq. ft.
Intermediate Coat	Aromatic Urethane 520	1.25 gallon/100 sq. ft.
Top Coat	Aliphatic Urethane 510	1.25 gallon/100 sq. ft.

CORE PRODUCT TECHNICAL DATA

SPRAY POLYURETHANE FOAM

Density	2.7-3.0	ASTM D1622
Compressive Strength	40-65 psi	ASTM D1621
R-Value	6.3-6.4/inch	ASTM C518
Tensile Strength	55-80 psi	ASTM D1623

AROMATIC URETHANE 520

Solids by Volume	70% ± 2%	ASTM D2697
Elongation	350 ± 50%	ASTM D2370
Tensile Strength	975 ± 25 psi	ASTM D2370
Viscosity	2,000 cps	
Color(s)	Silver	

ALIPHATIC URETHANE 510

Solids by Volume	74%	ASTM D2697
Elongation	350% ± 50	ASTM D2370
Tensile Strength	1100 ± 25 psi	ASTM D2370
Reflectivity	87%	ASTM C1549
Emissivity	91%	ASTM C1371
Viscosity	3,000 ± 1000 cps	
Color(s)	White, gray	

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.

Note: This document is intended as an overview of installation procedures. It is not meant to replace the application guideline. Please refer to application guidelines for complete installation details. Published technical information is subject to change without notice. Contact your American WeatherStar Field Sales Representative or visit www.americanweatherstar.com for current technical data and application guidelines.