

# TOPCOAT® Restoration Specifications Hypalon and PVC

## Specification Sheet



*Quality You Can Trust Since 1886...  
From North America's Largest Roofing Manufacturer™*

# TOPCOAT® Restoration Specifications Hypalon and PVC



## PART 1 – GENERAL

### 1.01 SYSTEM DESCRIPTION

The TOPCOAT® Roofing System can be applied on Hypalon® and PVC. This specification addresses unique aspects for this type of installation. Unless otherwise specified in this section, GAFMC's standard specifications shall be used for installations on Hypalon and PVC.

### 1.02 SUBSTRATE CONDITIONS

- A.. The TOPCOAT® Roofing System is to be applied over dry, sound Hypalon or PVC only. Roof must have positive drainage. Hypalon or PVC must be older than one year. Do not apply TOPCOAT® products over friable and/or brittle roofing. Substrate should not pond water for a period longer than 48 hours after precipitation stops.
- B. Test patches shall be prepared in representative roof areas to check adhesion of TOPCOAT® products before application on any Hypalon or PVC roof. TOPCOAT® Coatings will not adhere to any existing silicone-based coatings.
- C. **The bonding surface must be free of ponding water, ice, snow, splits, oils, grease and debris.**
- D. GAFMC/ TOPCOAT® recommend that a moisture scan be done by an independent source and requires it for a warranty.
- E. If the moisture scan reveals more than 20% of the roof area is wet, consider other reroofing options.
- F. The TOPCOAT® Roofing System should not be used on heavy-traffic bearing substrates. If foot traffic is expected, a rooftop walkway system approved by GAFMC must be used.

### 1.03 WARRANTY

Provide GAFMC/ TOPCOAT® 10-Year Emerald Pledge™ Warranty per the requirement of the Building Owner and/or Project Architect for the TOPCOAT® products installed in accordance with these specifications. Should a question arise as to the appropriateness of the TOPCOAT® Roof Coating System for any given hypalon or PVC roof, please contact GAFMC's Contractor Service Department.

*See warranty and guarantee for complete coverage and restrictions.*

### 1.04 REQUIREMENTS

- A. Project Registration
- B. A copy of the moisture scan must be submitted to GAFMC/ TOPCOAT® as a requirement for warranty issuance.

## PART 2 – PRODUCTS

### 2.01 ACCEPTABLE MANUFACTURERS

GAF Materials Corporation

### 2.02 MATERIALS - GENERAL

**Note Drying Times:** Listed drying times for various TOPCOAT® products are directly affected by environmental conditions and thickness of application. Allow additional drying time when experiencing high relative humidity, low temperatures and/or very thick product application to prevent improper curing and/or product "wash-off".

## A. TOPCOAT® Flashing Grade

TOPCOAT® Flashing Grade is a light gray, water-based synthetic rubber sealant which is applied to seams, fasteners, flashings, and penetrations prior to the application of the TOPCOAT® Elastomeric Roofing Membrane. Like the TOPCOAT® Roofing Membrane, it has superior adhesion, flexibility and resistance to ultraviolet degradation. Do not apply at temperatures below 42°F. Substrate temperatures must be below 120°F when applying product.

|                                  |                              |
|----------------------------------|------------------------------|
| Application Rate (seams):        | 5 gallons/125 ft. (6" width) |
| Application Method:              | Brush or caulking gun        |
| Application Temp (air, surface): | 42° - 120°F                  |
| Drying Time (75°F, 50% RH):      | Approximately 24 hours       |
| Recommended Wet Mil Thickness:   | 105 wet mils                 |
| Recommended Dry Mil Thickness:   | 60 dry mils                  |
| Total Solids (by weight):        | 68% ± 1%                     |
| Total Solids (by volume):        | 56% ± 2%                     |
| Specific Gravity:                | 1.44 ± 0.1                   |
| Weight per Gallon:               | 12.0 ± 0.5 lbs               |
| Viscosity (75°F):                | 225,000 ± 22,500 cps         |
| Clean-up:                        | Water before curing          |

## B. TOPCOAT® SB-900 Solvent-Based Flashing Grade

TOPCOAT® SB-900 is a solvent-based, synthetic rubber sealant designed for use in a wider range of temperatures. SB-900 Flashing Grade or FlexSeal must be used as the flashing material wherever Surface Seal SB will be used as the base coating. This product offers unique flow properties that allow encapsulation of fasteners with little or no tooling. This product is easiest to apply in temperatures above 42°F. Substrate temperatures must be below 120°F when applying product.

|   |   |
|---|---|
| Application Rate (seams):               | 5 gallons total/150 ft. (6" width)          |
| Application Method:                     | Stiff bristle brush, trowel or caulking gun |
| Application Temperature (air, surface): | 42° - 120°F                                 |
| Drying Time (75°F, 50% RH):             | Approximately 24 hours                      |
| Recommended Wet Mil Thickness:          | 85 wet mils                                 |
| Recommended Dry Mil Thickness:          | 60 dry mils                                 |
| Total Solids (by weight):               | 76% ± 1%                                    |
| Total Solids (by volume):               | 67% ± 2%                                    |
| Specific Gravity:                       | 1.26 ± 0.1                                  |
| Weight per Gallon:                      | 10.5 ± 0.5lbs                               |
| Viscosity (75°F):                       | 600,000 ± 100,000 cps                       |
| Clean-up:                               | Mineral Spirits, Toluene, Xylene            |

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## C. TOPESTER Reinforcing Fabric

TOPESTER Fabric is a non-woven, spun bonded 100% polyester web that must be used in conjunction with TOPCOAT® Flashing Grade, SB-900 and FlexSeal at all penetrations, joints, or changes in plane that are subjected to high shear or stress.

|   |          |
|---|----------|
| Average Weight (Ounces per square yard) per ASTM D1117: | 1.5      |
| Average Tensile Strength per ASTM D1628:                | 44 psi   |
| Average Elongation at break per ASTM 1628:              | 53%      |
| Trapezoidal Tear Strength per ASTM D2263:               | 18.5 lbs |

## D. TOPCOAT® Elastomeric Roofing Membrane



TOPCOAT® Elastomeric Roofing Membrane is a water-based, spray-applied liquid which cures to form a seamless elastomeric roofing membrane specially designed to seal the entire roof. TOPCOAT® Elastomeric Roofing Membrane is an ENERGY STAR® qualified reflective product, which will help in reducing building temperatures. Meets the stringent standards set by the Cool Roof Rating Council<sup>SM</sup> for solar reflectance and thermal emittance. It offers high tensile strength and elongation, and is virtually undamaged by extended exposure to solar ultraviolet energy. Ultraviolet rays enhance curing. It is low in VOC, non-flammable, and presents minimal hazard to the applicator and the environment. It is available in white (for maximum reflectivity) and 15 standard colors. Custom tinting is available upon request. Do not apply at temperatures below 42°F. Substrate temperatures must be below 120°F when applying product.

|                                  |  |
|----------------------------------|--|
| Application Rate:                | 1.0 to 3.0 gallons/100 sq.ft. total  |
| Application Method:              | Airless sprayer  |
| Application Temp (air, surface): | 42° - 120°F  |
| Drying Time (75°F, 50% RH):      | Approximately 24 hours per coat  |
| Wet Mil Thickness:               | (1.0 Gallon/100SF) - 16 wet mils   |
| Dry Mil Thickness:               | (1.0 Gallon/100SF) - 9 - 10 dry mils   |
| Total Solids (by weight):        | 71% ± 3%   |
| Total Solids (by volume):        | 58% ± 2%   |
| Specific Gravity:                | 1.48 ± 0.06  |
| Weight per Gallon:               | 12.3 ± 0.5 lbs   |
| Viscosity (75°F):                | 19,000 ± 3,000 cps   |
| pH:                              | 10.0 ± 1.0   |
| Elongation:                      | 375% ± 25%   |
| Tensile Strength:                | 275 ± 25 psi   |
| Water Permeability:              | 5.28 perm inch (ASTM D-1653)   |
| Freeze-Thaw Stability:           | Passes five (5) cycles   |
| Low Temp Flexibility:            | 35 mil dry film will bend 180° @ -30°F without fracturing  |
| Weatherability :                 | 1,000 hours Atlas Weather-o-meter® exposure per ASTM D-412, ASTM G-26.<br>Tensile Strength: 150% of original<br>Elongation: 85% of original<br>1,500 hours Atlas Weather-o-meter® exposure per ASTM D-412, ASTM G-26. No cracking, embrittlement, loss of adhesion or discoloration<br>2,000 hours UV exposure, type UV bulb, per ASTM G-53. No cracking, embrittlement, loss of adhesion or discoloration |
| Clean-up:                        | Water and mild soap  |