

TOPCOAT® Liquid-Applied Roofing Systems

PVDF Coating

(TOPGN160)

Updated: 7/14



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

PVDF COATING

Description

TOPCOAT[®] PVDF Coating is a water-based, spray-applied, Polyvinylidene fluoride-based reflective coating with exceptional dirt-repelling characteristics.

This product was designed to repel dirt build-up and staining from environmental factors that can diminish reflectance over time. Polyvinylidene fluoride is a well-established polymer additive that has been used in coating products for decades in both non-roofing and roofing applications. It offers excellent weatherability and resists mildew and can withstand extended exposure to a wide range of temperatures, ultraviolet rays, and atmospheric pollutants.

TOPCOAT[®] PVDF Coating is compatible with select water-based sealant and coating products, including TOPCOAT[®] Membrane and MB Plus coating products. It may be installed as a final coat in multicoat applications of compatible water-based product or in a multicoat PVDF coating application. See GAF's published TOPCOAT[®] application instructions for specifications and requirements.

PVDF coating is highly sensitive to substrate conditions, and all flashing materials and/or base coats **MUST BE THOROUGHLY CURED/DRY**, prior to the application of PVDF coating. Application to uncured or wet substrates will result in cracking.

While PVDF coating has demonstrated greater resistance to standing water than typical water-based coating, it is not warranted in applications where ponding water is present.

TOPCOAT[®] PVDF Coating is available in white but custom tinting is available (minimum order requirement).

Uses

TOPCOAT[®] PVDF Coating is designed for use over galvanized metal roofing, BUR, TPO (TOPCOAT[®] TPO Primer required), and modified bitumen membranes (MB Plus base coats required over asphaltic surfaces to deter staining), and select TOPCOAT[®] water-based coatings. **Substrate must not experience consistent repeated standing and/or ponding water and must have positive drainage.** Apply at temperatures above 42°F (5.56°C) and below 120°F (48.89°C). Keep material from freezing.

Advantages

- High reflectivity helps to reduce rooftop surface temperatures
- PVDF polymer deters adhesion of dirt and dust particles that impact aged reflectivity
- Compatible with other TOPCOAT[®] water-based coating products (see specifications for details)
- Water based, less impact on the environment, easy to clean up
- Extreme weatherability/longevity
- Mildew resistant
- Shorter cure time than typical water-based coatings
- Warranties available for up to 10 years*
- Guarantees for up to 20 years when used as part of a GAF Roofing System*
- Available in 5-gallon pails and 55-gallon drums, minimum order applies

For Application Questions

Contact GAF Technical Services at 1-800-766-3411 or visit gaf.com.

Note: Repair leaks promptly to avoid adverse effects, including mold growth.

*See TOPCOAT[®] 10-Year Limited Warranty and TOPCOAT[®] Diamond Pledge[™] NDL Roof Guarantee for complete coverage and restrictions.

TOPCOAT[®] PVDF COATING TECHNICAL DATA

Application Rate:	0.5 to 1.0 gallons per coat
Application Method:	Airless sprayer, brush, or roller
Application Temp (air, surface):	42 ° – 120 °F
Drying Time (75°F, 50% RH):	Approximately 24 hours per coat (install over DRY substrates ONLY)
Elongation:	ASTM D2370 100%
Solids Content (by weight):	57% calculation via formulation
Viscosity (75°F):	Brookfield (#6 spindle @ 10 rpm) 11,000~13,000 cps
Tensile Strength:	ASTM D2370 >200 psi
Unit Sizes:	5-gallon pail and 55-gallon drum
Weight Per 5-Gallon Pail, As Applicable:	63 lbs
Wet Adhesion on TOPCOAT [®] :	ASTM C794 2 lbf/in
Water Absorption:	ASTM D471 <5%
Water Vapor Permeance:	ASTM D96 49 perms
Tear Resistance:	ASTM D624 ~70-80 lbf/in
Coverage Rate:	Airless spray 120 sq ft/gal
VOCs:	<50 g/L
Initial Reflectivity:*	0.885

*Based on in-house testing

