



PRODUCT DESCRIPTION

The **PremiumCoat[®] System** is a liquid-applied, acrylic, water-based roofing and waterproofing solution for coating, recover, reroof and new roof applications. It provides a fully-adhered, adhesively attached, breathable acrylic membrane and a complete roof cover.

WARRANTY

See applicable warranties and guarantees for complete coverage and restrictions.

PACKAGING & SHELF LIFE

The **PremiumCoat[®] System** is comprised of the following components: **PremiumCoat[®] Foundation Coat**, **PremiumCoat[®] Fabric**, and **PremiumCoat[®] Finish Coat**.

For packaging information, please refer to individual product Technical Data Sheets.

BASIC USES & ADVANTAGES

Basic Uses:

- Metal (historic or commercial) roof waterproofing and cooling
- Flat and low-pitched roof waterproofing, including BUR, structural concrete, aggregate LWIC, EPDM, Hypalon[®], modified bitumen, PVC/KEE, and TPO
- Parapet wall waterproofing
- Exterior wall waterproofing
- Flashing of all types

The acrylic membrane forms a permanently flexible, highly U.V. resistant chemical resistant elastomeric compound. It is fully reinforced with a tough stitch-bonded polyester fabric which has been designed for roofing and flashing applications of all types.

PremiumCoat[®] System is easy to apply, safe to work with, and requires no special equipment.

Advantages:

- **PremiumCoat[®] System** is a Factory Mutual 4470 Class 1 Liquid Applied Roof Cover and meets all aspects of the International Building Code criteria as roof cover for the IBC, as well as the IgCC, and the IECC
- Uses only quality materials as certified by ASTM and ISO standards and is manufactured in GAF's ISO 9001:2008 certified factories.
- Quality assurance is further supported by regional technical field representatives, field inspections, and certified applicator training
- Ultraviolet and heat-resistant for added durability
- Highly reflective Finish Coat layers reduce heat and lower energy costs
- Excellent adhesion holds substrate in place even in hurricane force winds

PHYSICAL PROPERTIES

PREMIUMCOAT [®] SYSTEM	
Wind Driven Rain	Pass 0.0 lbs weight gain [TT-C-555B/D6904]
Elongation of Membrane (40 mils DFT)	MD: 36% @ 8,000 hrs weathering CD: 41% @ 8,000 hrs weathering [ASTM D4798 (G155) and D2370]
Tensile Strength of Membrane (40 mils DFT)	MD: 65lbs/in-width @ 8,000 hrs weathering, CD: 69lbs/in-width @ 8,000 hrs weathering [ASTM D4798 (G155) and D2370]
Tensile Strength of Membrane (40 mils DFT)	2210 PSI (13,789 kPa) [ASTM D412]
Water Vapor Permeability (40 mils DFT)	3-5 perms A Class III vapor retarder [ASTM E96]
Salt Spray	No effects [ASTM B117]
Algae Resistance	Orating [ASTM G29]
Drying Time	(Touch dry) 1-4 hours at 77°F @ 40% RH
Full Cure	7 days
Solar Reflectance	(white) 79% initial, 70% aged
Thermal Emittance	(white) 0.90 initial, 0.90 aged
SRI	(white) 99 initial, 86 aged

Exterior Fire	Class A up to 4"/12" slope [ASTM E108/UL790]
Interior Fire	Class 1 [FM 4470 Calorimeter]
Wind Uplift	Concrete: 6,089 psf LWIC: 4,621 psf Polyisocyanurate (ISO): 1,189 psf Smooth BUR: 2,261 psf Granulated Cap Sheet: 1,753 psf [FM 4470/4474, TAS 114 D/J, TAS 125]
Impact/Durability	Pass [FM 4470 Foot Traffic]
Leakage	Pass a free-standing membrane [FM 4470 ASTM D7281]
Hail	Pass - Severe [FM 4470 Hail]
Weathering (40 mils DFT)	Pass, maintained over 90% tensile strength after 8,000 hours Xenon-Acr. [ASTM D4798 (G155), D2370]
Typical Service Limits	-30°F to 200°F (-37°C to 93°C)
ASTM Material Properties	Pass [ASTM D6083]
Cured Weight	0.33 lbs per ft ² (56.8 ounces per m ²)

For specific physical property information on PremiumCoat[®] Foundation Coat, Fabric, and Finish Coat components, please refer to individual product Technical Data Sheets.



APPROVALS

ASTM D-6083	Tested and approved
California Title 24	PremiumCoat [®] System meets all Title 24 requirements
CRRC (Cool Roof Rating Council) coolroofs.org	PremiumCoat[®] Finish Coat White Initial Solar Reflectance 0.79 Initial Thermal Emittance 0.90 Initial SRI 99 Product ID 0614-0039
	PremiumCoat[®] Finish Coat Cotton Initial Solar Reflectance 0.71 Initial Thermal Emittance 0.90 Initial SRI 87 Product ID 0614-0040
	PremiumCoat[®] Finish Coat High Reflectant Plus Bright White Initial Solar Reflectance 0.92 Initial Thermal Emittance 0.86 Initial SRI 117 Product ID 0614-0042
Department of Energy, ENERGY STAR [®]	Approved: PremiumCoat [®] Finish Coat white & cotton
Factory Mutual FM4470 4474	Class 1 Roof Cover and Recover System over most roofing substrates. Standard for Class 1 Spread of Flame, Windstorm Pressure, Windstorm Pull, Hail Damage, Resistance to Foot Traffic, and Susceptibility to Leakage Classifications. Report J.I. 3000150 various assemblies.
Florida Dept of Codes floridabuilding.org	Acceptance # - FL6623-R1
GSA (U.S. General Services Admin)	Contract Number GS-07F-5988R Special Item Number- 563-4
Miami-Dade County NOAs miamidade.gov	10-0720.04, 11-0531.07 13-0204.15, 13-0204.16 13-0204.17, 13-0204.18
OTC (Ozone Transport Commission)	PremiumCoat [®] meets CA Rule 1113 and exceeds the requirements for the OTC

APPLICATION INSTRUCTIONS

Refer to GAF PremiumCoat[®] System specifications regarding surface preparation, cleaning, priming instructions, application information, coverage rates, and minimum membrane mil thickness required.

SUBSTRATE	SURFACE PREPARATION / PRIMING					
	BarrierGuard Slurry	CleanAct Rinseable Primer	SP Primer	StableRust Primer	SureBond Primer	UniBase Primer
BUR						X
Structural Concrete	X				X	
Aggregate LWIC	X				X	
EPDM		X				
Hypalon						
ISO Board						
Metal				X		
APP Mod Bit						X
SBS Mod Bit						X
PVC			X			
Cover Board*						
TPO			X			

*Dens Deck or MD ISO

General Coverage Rate & Application Information: PremiumCoat[®] Foundation Coat & Fabric components: this procedure consists of one coat of PremiumCoat[®] Foundation Coat ("Foundation Coat") applied to the substrate at the rate of 50–80 ft²/gallon (1.2–2 m²/liter), PremiumCoat[®] Fabric ("Fabric") (sizes vary) laid into the wet Foundation Coat, and a second coat of Foundation Coat immediately applied over the top at the rate of 50–80 ft²/gallon (1.2–2.0 m²/liter) to saturate the Fabric. Foundation Coat is applied at a total rate of 25–40 ft²/gallon (0.6–1.0 m²/liter), depending on the texture and porosity of the substrate. Foundation Coat should only be

applied using approved roof brushes. Rolling and/or spraying Foundation Coat is strictly prohibited.

Apply specified number of coats of PremiumCoat[®] Finish Coat ("Finish Coat") by brush, roller, or airless sprayer. Each Finish Coat shall be applied at 120–140 ft²/gal (2.95–3.43 m²/liter). Minimum milage requirements are 11.5–13.4 (292–340 microns) wet and 6.1–7.2 mils (154–182 microns) dry per coat. Allow to dry between coats. Total Finish Coat dry film thickness should be 12.2–14.4 mils (309–365 microns). See PremiumCoat[®] System specification for finished membrane mil thickness values.

LIMITATIONS & PRECAUTIONS

PremiumCoat[®] System liquid components will freeze and become unusable below 32°F (0°C). Do not ship or store unless protection from freezing is available. Do not apply if conditions will not permit complete cure before

rain, dew or freezing temperatures occur. Do not apply PremiumCoat[®] System at temperatures below 40°F (4.5°C), or when there is a possibility of temperatures falling below 32°F (0°C) within 24 hours of application.

SAFETY & HANDLING

For specific information regarding safe handling of this material, please refer to the Safety Data Sheet (SDS).

CLEAN UP

Thoroughly rinse application equipment with clean water.



GAF

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See applicable warranties and guarantees for complete coverage and restrictions.