



Product Data Sheet:

GacoRoof™ GR16 Series

Revised: 05/2020

**GACOROOF™ GR16 SERIES
100% SILICONE ROOF COATING**

A. DESCRIPTION

GacoRoof is a single component elastomeric air-dry silicone roof coating that can be applied year-round on properly prepared substrates. GacoRoof meets the requirements of ASTM D 6694.

GacoRoof GR1600 (white) meets Energy Star and Cool Roof Rating Council reflectance performance requirements. GacoRoof GR1600 (white) meets solar reflectance and thermal emittance requirements for: the 2012 International Energy Conservation Code (IECC); the ASHRAE 90.1 Energy Standard for Building Except Low-Rise Residential Buildings; and the California Building Energy Efficiency Standard CEC-400-2008-001-CMF, as adopted as Part 6 of Title 24. This product is list by Underwriters Laboratory Available in SCAQMD compliant versions.

B. RECOMMENDED USE

GacoRoof is designed as a protective coating to seal and repair existing roofs and permanently protect against leaks, permanent ponding water, and the damaging effects of severe weather.

C. PRODUCT CHARACTERISTIC

Not for use on asphalt shingles. May require multiple coats to create a seamless membrane dependent on substrate. Verification with GacoRoof AdhesionTestKit is recommended, please see below.

D. PHYSICAL PROPERTIES

PROPERTY	DESCRIPTION
Adhesion	Excellent adhesion to metal roofs, aged asphaltic roofs, concrete, and aged single ply membranes. An anti-corrosive metal primer may be used on ferrous metal roofs to help prevent corrosion from spreading.
Chemical Resistance	Excellent solvent and chemical resistance.
Colors	GR1600 White
	GR1626 Green
	GR1628 Gray
	GR1670 Light Tan
	GR1671 Rustic
	GR1672 Medium Blue
	GR1673 Black
	GR1674 Brown
Coverage	Applying 1 gallon per 100 ft ² (3.8 L / 9.3 m ²) yields approximately 11 mils dry film thickness (DFT) on smooth surfaces. Coverage rate may decrease on textured surfaces and more product will be used on the first coat versus additional coats. Heavily textured surfaces may require 3-4 coats to achieve a final 22 mil film build.
Solids	Weight: Method 4041 (80% ± 1%) / Volume: Fed. Std. 141 (69% ± 1%)
Storage Stability	Three years from date of manufacture when stored in unopened containers between 40° - 85 °F (4° - 29 °C).
Toxicity	Not for use in contact with edible substances or potable water.
V.O.C.	≤240 g/L (SCAQMD compliant version is 32.2 g/L)
Weatherability	Excellent durability, color stability and chalk resistance.

*For specific Health and Safety information please refer to applicable Safety Data Sheet

E. TYPICAL PROPERTIES

PROPERTY	TEST METHOD		STANDARD (MIN)
Emittance	ASTM E903		88% (GR1600 White)
Flammability	ASTM E108 (UL-790)		Class A
Flash Point	ASTM D56		102 °F (39 °C)
Hardness	ASTM D676		50 Shore A
Reflectance	ASTM E903		85% (GR1600 White)
Tear Resistance	ASTM D1624 Die C		
	32 pli (5.7 kg(f)/cm)		32 pli (5.7 kg(f)/cm)
Tensile	ASTM D412		
	Strength:	300 psi (3.31 MPa)	
	Elongation:	150% ± 10%	
	Permanent Set at Break:	≈1%	
Water Vapor Permeance	ASTM E96	0.06 perms	
	Procedure B, 100% R.H. difference		

F. APPLICATION

	STEP	DESCRIPTION
1.	Mixing	Mix before application to assure uniform color and consistency. Power mixing is recommended. Do not use a paint shaker to mix.
2.	Primer	GacoRoof will adhere to most surfaces without a primer. However, some substrates may require a primer for optimal adhesion. To verify adhesion prior to application, use the GacoRoof AdhesionTestKit, which provides results in just 24 hours. If the test reflects poor adhesion, prime all surfaces with GacoFlex E5320. On aged asphalt surfaces, apply GacoFlex A4271 BleedTrap™ Base Coat to help prevent bleed-through of asphaltic oils into the finished coating. When primer is necessary, apply BleedTrap prior to primer application.
3.	Thinning	Product should not be thinned.
4.	Application	<ul style="list-style-type: none"> a. A minimum of two coats are required. Recommended final film build is a minimum of 22 mils DFT. b. To help ensure complete coverage during application, alternate colors of GacoRoof are recommended for successive coats. Mix prior to application to ensure uniform color and consistency. c. For roofs with a slope less than 1:12 pitch/5°, use a solvent-resistant ¾" (19 mm) or 1" (25 mm) nap roller cover and depending on type of roof, dip roller directly into pail and apply, or pour product onto flat roof surface and roll out evenly, or for very smooth surfaces, pour out product and spread with an ⅛" (3 mm) notched squeegee then immediately back roll for a smooth, even finish. d. Pitched roofs (greater than 1:12 pitch/5°): Follow all safety guidelines to avoid injury. Use a solvent-resistant ¾" (19 mm) or 1" (25 mm) nap roller cover, dip roller directly into pail, and apply. A roof pitch greater than 4:12/19° is not considered walkable; additional reach equipment may be needed to properly apply the product safely and effectively. e. Allow the first coat to dry for 3 to 12 hours. Apply second coat as soon as the first coat can be safely walked on. The coverage rate of GacoRoof is 100 ft²/gallon (9.3 m²/3.8 L) in each coat on a smooth surface; coverage rate may decrease on textured surfaces, and more coating will likely be used on first coat than on additional coats. Smooth roofs can be completed in 2 coats, lightly textured surfaces often require 3 coats, and heavily textured surfaces may require 4 coats to achieve a final 22 dry mil film build. f. Do not apply in temperatures below freezing, above 120 °F (49 °C) or if rain is expected within 2 hours. Do not walk on GacoRoof other than for periodic maintenance; for areas of light foot traffic, create a walking path by applying a coat of LiquidRoofTape™ according to label instructions.

F. APPLICATION (cont.)		
	STEP	DESCRIPTION
5.	Dry Time	Allow the first coat to dry for 3 to 12 hours. Apply second coat as soon as the first coat can be safely walked on. NOTE: drying time depends on weather conditions such as temperature, humidity, and air movement.
6.	Clean-Up	Application tools and equipment can be cleaned with GacoFlex Silicone Solvent or 100% Pure Mineral Spirits. DO NOT USE WATER OR RECLAIMED SOLVENTS. Once a container of GacoRoof is opened, the curing process has started. Use the entire product on your project if possible. Allow any remaining product in the container to solidify and dispose of in the proper manner.
7.	Maintenance	Roof structures may settle over time. A periodic inspection of your roof, which includes transition areas, flashing, vents and skylights, is recommended. Keep drains cleared at all times. Roofs become slippery when wet. Use extreme caution. Do not recoat GacoRoof with acrylic, urethane or Hypalon® coatings. Recoat cleaned GacoRoof only with more GacoRoof.