



Product Data Sheet (PDS):

GacoRoof™ GR16 Series

Revised: 10/2022

GACOROOF™ GR16 SERIES 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 listed by Underwriters Laboratory Available in SCAQMD compliant versions.

B. RECOMMENDED USE:

GacoRoof is designed as a protective coating to seal and repair existing roofs, protect against leaks, and the damaging effects of severe weather. GacoRoof permanently withstands ponding water and exposure to ultra-violet radiation (UV).

C. LIMITATIONS:

Not for use on roofs comprised of individual asphalt shingles. Multiple coats are required to create a seamless membrane. GacoRoof AdhesionTestKit is recommended to ensure adhesion (see below).

NOTE: DO NOT WASH ASPHALTIC ROOFS.

NOTE: FOR AGED ASPHALTIC ROOFS, GR1600 WHITE IS THE ONLY COLOR OF APPLICATION. Non-white color variants will lead to blistering and failure of the waterproofing membrane and is not warrantable though any warranty offering(s) of Gaco.

D. COLORS:

GR1600 – White
GR1626 – Green
GR1628 – Gray
GR1670 – Light Tan
GR1671 – Rustic
GR1672 – Medium Blue
GR1673 – Black
GR1674 – Brown
GR1675 – Red

E. PACKAGED PRODUCT DATA:

<i>PROPERTY</i>	<i>DESCRIPTION</i>
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.
COVERAGE	Applying 1 gal / 100 ft ² (3.8 L / 9.3 m ²) yields approximately 11 mils Dry Film Thickness (DFT) on smooth surfaces. Coverage rate is decrease on textured surfaces and more product will be used on the first coat versus additional coats. Heavily textured surfaces may require three (3) – four (4) coats to achieve a final 22 mil Dry Film Thickness (DFT) build.
SOLIDS	Weight: 80% Method 4041 Volume: 69% Fed. Std. 141
STORAGE STABILITY	Three years from date of manufacture when stored in unopened containers between 40 °F – 85 °F (4.5 °C – 29.5 °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 chalking resistance

F. PHYSICAL PROPERTIES:

<i>PROPERTY</i>	<i>TEST METHOD</i>	<i>RESULT</i>
EMITTANCE	ASTM E903	88 % (GR1600 White)
FLAMMABILITY	ASTM E108 (UL-790)	Class A
FLASH POINT	ASTM D56	102 °F (38.8 °C)
HARDNESS	ASTM D676	50 Shore A
REFLECTANCE	ASTM E903	85 % (GR1600 White)
TEAR RESISTANCE	ASTM E903	32 pli (5.7 kg(f) / cm)
TENSILE	ASTM D412	
	Strength:	300 psi (2 MPa)
	Elongation:	150 % ± 10 %
	Permanent Set at Break:	≈1 %
WATER VAPER PERMEANCE	ASTM E96 (Procedure B, 100 % R.H. difference)	0.06 perms

G. APPLICATION:

STEP	INSTRUCTIONS
THINNING	Product should not be thinned.
MIXING	Mix before application to assure uniform color and consistency. Power mixing is recommended. Do not use a paint shaker to mix.
POT LIFE	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 accordance with all waste disposal requirements applicable in your region.
SURFACE PREPARATION	<p>It is extremely important to get the roof clean and dry. First remove heavy deposits of dirt, leaves and other debris from the roof using broom or air broomer, then inspect the entire roof surface and flashings for any open seams, tears, cuts, etc. Repair these flaws so water is not blown in under membrane during the cleaning process. Pressure wash roof with water and allow to dry completely. For general cleaning, apply GacoWash Concentrated Cleaner according to label instructions.</p> <p>On all single-ply membrane roofs, after application of cleaner, power scrub the roof surface until clean and then power wash to remove debris and continue rinsing until all suds are gone. Biological Control: Areas of algae, mildew or fungus on the roof membrane or the existing coating should be treated with a solution of 1 part household bleach and 3 parts water, followed by a power washer rinse using clear water. Drying: After cleaning and rinsing the roof, ensure no dirt or debris is present. Allow surfaces to thoroughly dry to prevent blistering. Examine roof, paying particular attention to areas of physical damage to determine that residual water has in fact dried before applying coating.</p> <p>NOTE: Drying time depends on weather conditions such as temperature, humidity and air movement.</p>
PRIMING	<p>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 twenty-four (24) hours. If the test reflects poor adhesion, prime all surfaces with a suitable GacoFlex primer.</p> <p>On aged asphalt surfaces, apply GacoFlex A4271 BleedTrap™ Base Coat to help prevent bleed-through of asphaltic oils into the finished coating. When a primer is necessary, apply GacoFlex A4271 BleedTrap prior to primer application (EXCLUDING GRAVEL-SURFACED BUR MEMBRANES).</p>
APPLICATION	<p>Do not apply in temperatures below freezing, above 120 °F (49 °C) or if rain is expected within two (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. A minimum of two (2) coats are required. A minimum Dry Film Thickness (DFT) of 22 mils must be achieved. 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.</p> <p>FOR FLAT ROOFS: Less than 1:12 pitch (5°): Use a solvent-resistant 0.75 in (19 mm) or 1 in (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</p>

	<p>spread with an 0.125 in (3 mm) notched squeegee then immediately back roll for a smooth, even finish.</p> <p>FOR PITCHED ROOFS: Greater than 1:12 pitch (5°): Follow all safety guidelines to avoid injury. Use a solvent-resistant 0.75 in (19 mm) or 1 in (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.</p> <p>Allow the first coat to dry for three (3) to twelve (12) hours. Apply second coat as soon as the first coat can be safely walked on. The coverage rate of GacoRoof is 100 ft² / gal (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 two (2) coats, lightly textured surfaces often require three (3) coats, and heavily textured surfaces may require four (4) coats to achieve a minimum Dry Film Thickness (DFT) of 22 mils.</p>
DRY TIME	<p>Allow the first coat to dry for three (3) to twelve (12) hours. Apply second coat as soon as the first coat can be safely walked on. Drying time depends on weather conditions such as temperature, humidity, and air movement.</p>
CLEAN UP	<p>Application tools and equipment can be cleaned with GacoFlex T5135 Silicone Solvent or 100% Pure Mineral Spirits. DO NOT USE WATER OR RECLAIMED SOLVENTS.</p> <p>NOTE: 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 accordance with all waste disposal requirements applicable in your region.</p>

H. 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

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