

Gaco Western

S I N C E 1 9 5 5

Product Data Sheet:

GacoRoof GR1600 Series

November 2013

Supersedes 08/13

GACOROOF GR1600 SERIES 100% SILICONE COATING

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

GacoRoof GR1600 (white) meets the requirements for the Energy Star reflectance performance requirements for both low and high-sloped roofs and the requirements for the Cool Roof Rating Council. 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.

USAGE: 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.

LIMITATIONS: Not for use on 3-tab asphalt or architectural shingles. May require multiple coats to create a seamless membrane. May require GacoFlex E5320 2-Part Epoxy Primer/Filler. Verify adhesion with a GacoRoof Adhesion Test Kit.

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

APPLIED PRODUCT DATA

WEATHERABILITY: Excellent durability, color stability and chalk resistance.

TOXICITY: Not for use in contact with edible substances or potable water.

ADHESION: Bonds to aged asphalt, aged EPDM, aged TPO/CPA, built-up, cap sheet, composite, concrete, fiberglass, metal, modified bitumen, torchdown, sprayed polyurethane foam and most existing coatings on flat or sloped roofs.

CHEMICAL RESISTANCE: Excellent solvent and chemical resistance.

TENSILE: ASTM D412
Strength: 300 psi (3.31 MPa)
Elongation: 150% ± 10%
Permanent Set At Break: ≈1%

TEAR RESISTANCE: ASTM D1624 Die C
lbs/inch 32 pli (5.7 kg(f)/cm)

HARDNESS: ASTM D676 50 Shore A

WATER VAPOR PERMEANCE:	ASTM E96 Procedure B, 100% R.H. difference	0.06 perms
FLAMMABILITY:	ASTM E108 (UL-790)	Class A
REFLECTANCE:	ASTM E903	85% (GR1600 White)
EMITTANCE:	ASTM E903	88% (GR1600 White)

PACKAGED PRODUCT DATA

THEORETICAL COVERAGE:	100 Sq. Ft./Gallon (9.3 Sq. Meters/3.8 L) to yield 11 dry mils 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 mil film build.	
SOLIDS:	Weight: Method 4041 Fed. Std. 141	80% ± 1%
	Volume:	69% ± 1%
V.O.C:	≤240 g/L SCAQMD compliant version is 32.2 g/L	
FLASH POINT:	ASTM D56	102°F (39°C)
STORAGE STABILITY:	Three years from date of manufacture when stored in unopened containers between 40°- 85°F (4°-29°C).	

APPLICATION

MIXING:	Mix before application to assure uniform color and consistency. Power mixing is recommended for quantities greater than 1 gallon (3.8 L). Do not use a paint shaker to mix.
PRIMER:	GacoRoof will adhere to most surfaces without a primer; however, some substrates may require a primer for optimal adhesion. On any aged asphalt surfaces, applying GacoFlex E5320 2-Part Epoxy Primer/Filler, according to label directions, may help prevent bleed-through staining on the final coats. To verify adhesion, use the GacoRoof AdhesionTestKit, which provides results in just 24 hours. If the test reflects poor adhesion, prime all surfaces with GacoFlex E5320 according to label directions.
THINNING:	Product should not be thinned.
APPLICATION:	A minimum of two coats are required; recommended final film build is a minimum of 22 dry mils. To help ensure complete coverage during application of the final coat, it is recommended to use a different GacoRoof color for the first coat to create a color contrast. Mix before application to ensure uniform color and consistency. Flat roofs (less than 1:12 pitch/5°): Use a solvent-resistant ¾" or 1" 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 1/8" notched squeegee then immediately back roll for a smooth, even finish. Pitched roofs (greater than 1:12 pitch/5°): Use extreme caution when on a pitched roof. Follow all safety guidelines to avoid injury. Use a solvent-resistant ¾" or 1" 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. 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 sq. ft. per gallon 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.

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.

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.

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.

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.

CAUTION: For specific Health and Safety information please refer to the Material Safety Data Sheet.