

GACOFLEX™ S20 SERIES SOLVENT-FREE 100% SILICONE ROOF COATING

A. PRODUCT DESCRIPTION:

GacoFlex S20 Series Silicone coatings are solvent-free, single-component waterproof elastomeric moisture-curing silicone coatings.

B. RECOMMENDED USE:

GacoFlex S20 Series Silicone Coatings may be used as maintenance coating systems over existing elastomeric roof coatings, metal roofs, built-up roofing, mineral cap sheets, modified bitumen (APP and SBS) and weathered single ply membranes (EPDM, PVC, CSPE, and TPO/CPA) where the membrane is in sound condition but requires a renewal of the membrane surface due to the normal effects of aging and use.

GacoFlex S20 Series Silicone Coatings are ideal for use over sprayed-in-place polyurethane foam roofing such as GacoFlex GacoRoofFoam™ series, concrete, plywood decking (when properly applied over an approved base coat) and on roof surfaces that are used as part of rainwater catchment systems.

When properly applied, the GacoFlex S20 Coating System provides a seamless weather-tight seal that protects the substrate from degradation caused by ultraviolet light, water, and other normal weathering hazards.

C. APPROVALS:

Underwriters Laboratory – UL790-Class A

- Approved with GacoRoofFoam series
- Approved maintenance coating over all FM Approved Roofs (Single Ply, BUR, Cap Sheet, Metal, etc.)

Cool Roof Rating Council – CRRC 0740-0012

Miami-Dade Product Control-NOA 12-0426

Florida Product Control-FL14724-RI

Texas Department of Insurance-RC-353

NSF P151 – Certification of rainwater catchment system components



CEMENTS AND COATINGS FOR ROOFING SYSTEMS
CLASSIFIED BY UNDERWRITERS LABORATORIES INC.
AS TO AN EXTERNAL FIRE EXPOSURE ONLY 60PO



D. PACKAGED PRODUCT DATA*:

PROPERTY	OBSERVED VALUE / DESCRIPTION
COLORS	S2000 – White S2022 – Gray S2048 – Tan S2029 – Dark Gray (available as special order only)
WEATHERABILITY	Excellent durability, color stability and chalk resistance.
CHEMICAL RESISTANCE	Excellent solvent and chemical resistance.
TOXICITY	Not for use in contact with edible substances or for long-term storage of potable water.
THEORETICAL COVERAGE	1.5 gal / 100 ft ² (5.7 L / 9.3 m ²) to yield approx. 22 dry mil

	NOTE: Application rate is job specific and losses due to overspray, surface profile, and wind may occur. Additional material may be required to achieve 22 dry mil.	
WEIGHT PER GALLON	11.47 lbs./gallon (5.20 kg)	
SOLIDS	Weight: 96.5 % Volume: 95 %	Method 404 Fed. Std. 141
V.O.C.	37 g/l (0.309 lb/gal)	
FLASH POINT	ASTM D3278; 178 °F (81 °C)	
STORAGE STABILITY	Two years from date of manufacture when stored in sealed containers between 0 °F – 80 °F (-17 °C – 26 °C).	

E. APPLIED PRODUCT DATA*:

PROPERTY	TEST	RESULT	ASTM D6694 REQUIREMENT
TENSILE STRENGTH@ 73 °F (23 °C)	ASTM D412	450 psi (3.1 Mpa)	150 Min.
TENSILE STRENGTH@ 73 °F (23 °C)	ASTM D2370	461 psi (3.1 Mpa)	150 Min.
SHORE A HARDNESS	ASTM D2240	63	Not required
ELONGATION AT BREAK @ 73 °F (23 °C)	ASTM D412	174 %	100 Min.
TENSILE STRENGTH @ 0 °F (-18 °C)	ASTM D412	574 psi	150 Min.
ELONGATION AT BREAK @ 0 °F (-18 °C)	ASTM D412	169 %	100 Min.
ELONGATION AT BREAK @ 73 °F (23 °C)	ASTM D2370	295%	100 Min.
TEAR RESISTANCE (DIE C)	ASTM D624	38.5 lb/inch (4.3 n/m)	20 Min.
WET ADHESION			ASTM D6694
SPRAY POLYURETHANE FOAM	ASTM C794/D903	Pass	2.0 min
ACRYLIC COATING			
GALVANIZED METAL WITH E5320 PRIMER			
BUR WITH E5320			
EPDM WITH E5320 PRIMER			
PVC WITH E5320 PRIMER			
8670 HOUR IMMERSION IN 150 °F (66 °C) WATER	ASTM D471	---	Not required
TENSILE STRENGTH	ASTM D412	450 psi (3.1 Mpa)	Not required
ELONGATION AT BREAK	ASTM D412	125 %	Not required
1000 HOURS ACCELERATED WEATHERING	ASTM G154	---	---
ELONGATION AT BREAK @ 73 °F (23 °C)	ASTM D412	371 %	100 % Min.
ELONGATION AT BREAK @ 0 °F (-18 °C)	ASTM D412	124 %	100 % Min.
5000 HOURS ACCELERATED WEATHERING	ASTM G154	---	---
ELONGATION AT BREAK @ 73 °F (23 °C)	ASTM D412	126 %	50 %
ELONGATION AT BREAK @ 0 °F (-18 °C)	ASTM D412	124 %	50 %
APPEARANCE	ASTM D6694	Pass	No cracking or checking

WATER VAPOR PERMEABILITY, 20 MILS (0.5 MM) DET	E96	5.0 Perms	2.5 Perms
SOLAR PERFORMANCE			
SOLAR REFLECTANCE (INITIAL)	C1549	Pass	0.88
SOLAR REFLECTANCE (ACCELERATED)	D7897-15, C1549	Pass	0.63
THERMAL EMITTANCE (INITIAL)	C1371	Pass	0.87
THERMAL EMITTANCE (ACCELERATED)	D7897-15, C1371	Pass	0.89
SOLAR REFLECTIVITY INDEX (SRI) – (INITIAL)	E1980	Pass	111
SOLAR REFLECTIVITY INDEX (SRI) – (ACCELERATED)	D7897-15, E1980	Pass	76

NOTE: GacoFlex S2000 (White) meets the cool roof requirements of California Title 24 and the International Energy Conservation Code.

F. PRODUCT INSTALLATION:

STEP	INSTRUCTIONS
SUBSTRATE PREPARATION	Carefully inspect the substrate to ensure it is free of defects/punctures, ect. These must be completely addressed to ensure watertightness and integrity of the coating. <u>FOR CONCRETE:</u> Inspect the concrete surface to ensure that spalled areas are repaired with GacoFlex A17 GacoCrete Acrylic Resurfacer. Consult Gaco Western Specification GW-13-GC (GacoCrete Acrylic Modified Topping) for application instructions. Allow all repaired surfaces to dry completely before proceeding.
MIXING	Mix properly prior to application to ensure uniform color and consistency. Mechanical mixing is recommended to ensure a well-mixed product
THINNING	Product should not be thinned
SEALER	<u>FOR ASPHALT:</u> GacoFlex A4271 BleedTrap™ Base Coat is strongly recommended over APP and Smooth Built-Up roofing substrates (including mineral surface cap sheets) prior to installing GacoFlex S2000*, and required for all warrantable applications over SBS. NOTE: Gaco does not recommend and does not warrant pigmented (i.e., “non-white”) silicone coatings over asphalt substrates <u>FOR CONCRETE:</u> Apply GacoFlex™ E5691 Epoxy Primer/Sealer per instructions found on its Product Data Sheet (PDS).
PRIMER	Existing silicone coatings should not be primed. On other substrates and cured A4271 BleedTrap, apply GacoFlex E5320 2-Part Epoxy Primer/Filler according to Gaco application instructions. <u>FOR CONCRETE:</u> Alternative concrete primer: GacoFlex E5320 Primer can be used, concrete moisture content needs to be below 4.5, as measured with a Tramex CME 4 or 5. Follow instructions found on its Product Data Sheet (PDS).

<p>APPLICATION</p>	<p>Apply by brush or ¾ in (20 mm) nap woven roller as received. For spray application, use as received; consult GW 6-5-SG Silicone Spray Guide for more information. Do not apply if rain is expected within one (1) hour. For cold weather application, keep material stored above 65 °F (18 °C). For application in temperatures below freezing or above 120 °F (49 °C), contact Gaco.</p> <p>On smooth surfaces, apply one coat at a min. rate of 1.5 gal / 100 ft² (5.7 L / 9.3 m²) to achieve approx. 22 dry mil. On granulated and other rough surfaces, apply at a rate of 2 gal / 100 ft² (7.6 L / 9.3 m²) to achieve 22 dry mil. Allow GacoFlex S20 Series to dry a min. of 4 hours at 55 °F (13 °C); recoat within four (4) to forty-eight (48) hours.</p> <p>Coat all surfaces including expansion joint covers and flashings. Extra material is required at all edges and penetrations if neoprene sheet flashing is not used. NOTE: Application rate is job-specific and losses due to overspray, surface profile and wind may occur. Additional material may be required to achieve the required dry mil coverage</p>
<p>CURE DURATION</p>	<p>Final coat should be allowed to cure twenty-four (24) to forty-eight (48) hours, depending on temperature and humidity, before suitable for light foot traffic</p>
<p>CLEAN-UP</p>	<p>Clean application tools and equipment with GacoFlex T5110 Silicone Solvent. Recirculate through lines and gun until residual coating is removed. DO NOT USE WATER OR RECLAIMED SOLVENTS</p>

* For specific Safety and Health information please refer to the appropriate Safety Data Sheet that is associated with this product.