Gaco™

Product Data Sheet:

GacoFlex™ S2100
Revised: 05/2020

GACOFLEX™ S2100
WHITE CLEANABLE SOLVENT-FREE SILICONE ROOF COATING

A. DESCRIPTION

GacoFlex S2100 White Cleanable Solvent-Free Silicone Coating is the first high-solids 100% silicone coating to resist dirt pick-up even after years of exposure, thereby maintaining significantly higher whiteness and solar reflectivity than other silicone coatings. It is highly cleanable, and if necessary, can easily be cleaned with GacoFlex GacoWash Concentrated Cleaner. Improved rheology provides better film build on high spots and over granular or uneven surfaces. GacoFlex S2100 contains 37% recycled content and does not contain crystalline silica. Like all GacoFlex silicone roof coatings, it withstands permanent ponding water.

B. RECOMMENDED USE

Use GacoFlex S2100 as a maintenance coating system over existing elastomeric roof coatings, metal roofs, smooth built-up roofing, mineral cap sheets, modified bitumen (APP and SBS) and weathered single ply membranes where the substrate is in sound condition, but requires a renewal of the surface due to the normal effects of aging and use.

GacoFlex S2100 is ideal for use over sprayed-in-place polyurethane foam roofing, such as GacoFlex F2733 GacoRoofFoam™, concrete and plywood decking (when properly applied over an approved base coat). When properly applied, the S2100 coating system provides a seamless weather-tight seal that protects the substrate from degradation caused by ultraviolet light, water, and other normal weathering hazards.

The GacoFlex S2100 Roof Coating System is eligible for a 5-Year Energy Star Warranty when installed according to Gaco's technical specifications by a Gaco licensed applicator.

C. PRODUCT CHARACTERISTICS

PROPERTY	DESCRIPTION
Approvals	Underwriters Laboratory – UL790-Class A
	Factory Mutual Approvals – FM4470 – Class 1
	Severe Hail when applied over GacoFlex F2733 GacoRoofFoam
	Approved Maintenance Coatings over all FM Approved Roofs (Single Ply, BUR, Mod Bit, Standing & Lap Seam Metal, etc.)
Chemical Resistance	Excellent solvent and chemical resistance
Colors	S2100 White
Coverage	One coat at a rate of 1.5 gal per 100 ft² (5.7 L per 9.3 m²) to achieve approximately 22 dry mils. 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 minimum 22 dry mils.
Flash Point	ASTM D56 130°F (54°C)
Solids	Weight: 96% / Volume: 95%
Storage Stability	Two years from date of manufacture when stored in unopened containers between 0 °F – 80 °F (-17 °C – 26 °C).
Toxicity	Not for use in contact with edible substances or potable water
V.O.C.	< 50 g/l
Weatherability	Excellent durability, color stability and chalk resistance.

D. TYPICAL PROPERTIES

PROPERTY	TEST	STANDARD (MIN)	RESULT
Tensile Strength @ 73 °F	ASTM D412	292 psi	150 psi min.
Elongaton at Break @ 73 °F	ASTM D412	125%	100% min.
Tensile Strength @ 0 °F	ASTM D412	365 psi	150 psi min.
Elongation at Break @ 0 °F	ASTM D412	175%	100% min.
Tear Resistance (Die C)	ASTM D624	21 pli	20 pli min.
Low Temp Flex @ -15 °F	ASTM D522	Pass	Pass
Permeance 20 mils @ 75 °F and 50% RH	ASTM E96 – B, Inverted Cup	5.5 Perms	2.5 Perms min.
Wet Adhesion			
EPDM with E5320 Primer	ASTM D903	2.0 psi min.	Pass
Galvanized Metal with E5320 Primer	ASTM D903	2.0 psi min.	Pass
Granulated APP with E5320 Primer	ASTM D903	2.0 psi min.	Pass
Granulated SBS with E5320 Primer	ASTM D903	2.0 psi min.	Pass
Hypalon with E5320 Primer	ASTM D903	2.0 psi min.	Pass
KEE with E5320 Primer	ASTM D903	2.0 psi min.	Pass
PVC with E5320 Primer	ASTM D903	2.0 psi min.	Pass
Spray Polyurethane Foam	ASTM D903	2.0 psi min.	Pass
TPO with E5320 Primer	ASTM D903	2.0 psi min.	Pass
Wind-Driven Resistance			
Resistance to Wind-Driven Rain	TT-C-555B	Pass	Pass
Weight Gain of Block	TT-C-555B	0.01 lb	< 0.2 lb
Solar Performance			
Solar Reflectance (Initial)	C1549	Pass	0.82
Solar Reflectance (Accelerated)	D7897-15, C1549	Pass	0.71
Thermal Emittance (Initial)	C1371	Pass	0.9
Thermal Emittance (Accelerated)	D7897-15, C1371	Pass	0.89
Solar Reflectivity Index (SRI) – (Initial)	E1980	Pass	103
Solar Reflectivity Index (SRI)–(Accelerated)	D7897-15, E1980	Pass	87

E. APPLICATION

	STEP	DESCRIPTION
1	**Asphalt Sealer**	GacoFlex A4271 BleedTrap™ Base Coat is required over asphalt substrates (including mineral surface cap sheets), followed by GacoFlex E5320 2-Part Epoxy Primer/Filler prior to installing GacoFlex S2100.
2	**Priming**	Existing silicone coatings should not be primed. On all other substrates and cured A4271 BleedTrap, apply GacoFlex E5320 2-Part Epoxy Primer/Filler according to Gaco application instructions.
3	**Mixing**	Mix before application to ensure uniform color and consistency.
4	**Thinning**	Product should not be thinned.
5	**Application**	Apply by brush or ¾" (19 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 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. On smooth surfaces, apply one coat at a minimum rate of 1.5 gal per 100 ft² (5.7 L per 9.3 m²) to achieve approximately 22 dry mils. On granular and other rough surfaces, apply at a rate of 2 gal per 100 ft² (7.6 L per 9.3 m²) to achieve 22 dry mils. Allow GacoFlex S2100 to dry a min. of 4 hours at 55 °F (13 °C); recoat within 4 to 48 hours. 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. Additional material may be required to achieve the required dry mil coverage.
6	**Dry Time**	Coating should be allowed to cure 24 to 48 hours depending on temperature and humidity before it is suitable for light foot traffic (product is moisture cure; low humidity will result in longer dry times).
7	**Clean-up**	Application tools and equipment can be cleaned with GacoFlex T5110 Compliant Solvent. Recirculate through lines and gun until residual coating is removed. DO NOT USE WATER OR RECLAIMED SOLVENTS.
8	**Maintenance**	To maintain whiteness and reflectivity, roofs coated with S2100 can be power washed with pure water. GacoWash can be utilized if necessary on oily areas.