Gaco™

Product Data Sheet (PDS):

GacoFlex™ A47 Series
Acrylic Roof Coating
Revised: 11/2022

GACOFLEX A47 SERIES
ACRYLIC ROOF COATING

A. DESCRIPTION:

GacoFlex A47 Series water-borne acrylic roof coating forms a durable liquid-applied elastomeric membrane with high tensile strength, water resistance, reflectivity, and weatherability properties.

B. RECOMMENDED USE:

GacoFlex A47 is intended as a roof maintenance coating over sprayed polyurethane foam, aged asphalt roofs, metal roofs, and aged single-ply roofing membranes. Use is restricted to circumstances where the membrane surface is in sound condition but requires a renewal of the surface due to the normal effects of use and aging.

C. LIMITATIONS:

Not intended for low-slope applications (< 2:12) or over surfaces prone to ponding water. Consider GacoFlex silicone roof coatings when long term resistance to ponding water is required. Not suitable for use over gravel-surfaced built-up roofs or asphalt shingles.

D. APPROVALS:

GacoFlex A47 has undergone and passed the appropriate testing standards to achieve the following approvals:

E. PACKAGED PRODUCT DATA:

PROPERTY	*DESCRIPTION*
COLOR	A4700 White *Custom colors available*
ADHESION	Excellent adhesion to polyurethane foam, such as GacoFlex GacoRoofFoam™, aged asphalt roofs, metal roofs, aged single-ply membranes, and existing coatings. Some metal roofs may require a suitable GacoFlex primer. An anti-corrosive metal primer may be used on ferrous metal roofs to help prevent corrosion from spreading. Metal panels must be structurally sound to serve as a suitable substrate for a roof coating. GacoFlex Gaco Prime LVOC Primer may be required over existing coatings. Do not apply GacoFlex A47 Series Roof Coating over existing silicone coatings.
THEORETICAL COVERAGE	818 ft² / gal / mil (76 m² / 3.78 L / 0.02 mm)
SOLIDS	Weight: 66.5 % ASTM D1644 Volume: 51.0 % ASTM D2697
STORAGE STABILITY	24 months when stored between 50 °F – 110 °F (10 °C – 43 °C). Do not allow product to freeze. Some separation may occur after extended storage. Mix thoroughly before use.
TOXICITY	Not for use in contact with edible substances or potable water.
V.O.C.	< 50 g / L EPA Method 24

FLASH POINT	> 200 °F (> 93 °C)	ASTM D1310
VISCOSITY	100 - 125 KU	ASTM D2697
DENSITY	11.7 lbs / gal (5.3 kg / 3.8 L)	

F. PHYSICAL PROPERTIES:

PROPERTY	*ASTM TEST*	*REQUIREMENT*	*RESULT*
TENSILE STRENGTH – INITIAL	D2370	>= 200 psi (1.4 MPa)	229 psi (1.6 MPa)
ELONGATION AT BREAK – INITIAL	D2370	>= 100 %	220 %
TENSILE STRENGTH – 1000 HOURS	D2370	>= 200 psi (1.4 MPa)	411 psi (2.8 MPa)
ELONGATION AT BREAK – 1000 HOURS	D2370	>= 100 %	252 %
TEAR RESISTANCE (DIE C)	D624	60 min.	68.5 lb / in (31 kg / 25 mm)
LOW TEMPERATURE FLEX	D522	½" Mandrel, -15 °F (-26 °C)	Pass
LOW TEMPERATURE FLEX – 1,000 HOURS	D522	½" Mandrel, -15 °F (-26 °C)	Pass
WATER VAPOR PERMEABILITY – 20 MILS DFT (INCH POUNDS)	E96	50 Perms. max	7.0 Perms
WET ADHESION			
FOAM	C794 / D903	2.0 lb (0.9 kg) min.	Pass
GALVANIZED STEEL		2.0 lb (0.9 kg) min.	Pass
PLYWOOD		2.0 lb (0.9 kg) min.	Pass
SBS CAP SHEET		2.0 lb (0.9 kg) min.	Pass
APP		2.0 lb (0.9 kg) min.	Pass
WATER SWELLING	D461	20% max	5%
SOLAR PERFORMANCE		**Initial**	**After Soiling**
SOLAR REFLECTANCE – A4700 WHITE	C1549	0.86	0.72
THERMAL EMITTANCE – A4700 WHITE	C1371	0.91	0.89
SOLAR REFLECTIVITY INDEX – A4700 WHITE	E1980	109	88

G. APPLICATION

STEP	INSTRUCTIONS
THINNING	Thinning is not recommended under normal conditions.
MIXING	Mix until homogeneous with a mechanical mixer before application to ensure uniform color and consistency.
SURFACE PREPARATION	Repair all leaks, cracks, and other deficiencies and seal flashings in the existing substrate using like materials as recommended by the original membrane manufacturer before applying GacoFlex A47 Series Roof Coating. Newly repaired areas may require a suitable GacoFlex primer. Contact Technical Services for primer recommendations. When necessary, use GacoWash at 1-part concentrate to 9-parts water to clean roof before application. Rinse well and allow substrate to dry thoroughly. **NOTE:** DO NOT WASH ASPHALT SUBSTRATES
APPLICATION	Do not apply GacoFlex A47 Series Roof Coating to wet surfaces. Make sure roof surface is completely dry, clean, and free of dirt, grease, biological soiling, loose granules, and paint residue before coating. Apply GacoFlex A47 Series Roof Coating only when air, material, and surface temperatures are between 50 °F – 110 °F (10 °C – 43 °C). Apply product in the morning to allow for maximum dry time during daylight hours. If roof temperature exceeds 100 ºF (38 °C), a light mist of water may be used to increase working time. Application rates vary based on substrate type, refer to Application Specifications available at Gaco.com for further details. Additional coats may be required to achieve required minimum Dry Film Thickness (DFT). GacoFlex A47 Series Roof Coatings may be applied with a 3/8 in (10 mm) nap roller, brush, or airless sprayer. FOR USE OF AIRLESS SPRAYERS: General recommendation of 2,000 – 3,000 psi (13.8 MPa – 20.7 MPa) at the gun tip, 1.0 –3.0 gal / min (3.8 L – 11.4 L / min) flow rate, and tip sizes ranging from 0.025 – 0.040 in (0.64 – 1 mm). Larger spray units will allow for longer hoses on larger jobs. Contact Technical Services if further assistance is required in determining the optimal equipment for project-specific requirements. **NOTE:** DO NOT EXCEED 1.5 GAL / 100 FT^2 (5.6 L / 9.3 M^2) PER COAT
DRY TIME	Approximate dry time is 4-6 hours at 75 ºF (24 °C) and 50% RH per coat of GacoFlex A47 Series Roof Coating. Low temperatures or high humidity conditions will extend cure times. Do not apply GacoFlex A47 Series Roof Coating when precipitation or heavy dew is expected within 4 hours (6–8 hours in high humidity conditions).
CLEAN UP	Clean up tools and equipment with soap and water immediately after application. Follow spray equipment manufacturer's guidelines on clean up and maintenance of spray equipment.

** For specific Health and Safety information, please refer to Safety Data Sheet (SDS)*