

GACOFLEX™ UB-64 LIQUID POLYURETHANE BASE COAT

A. DESCRIPTION

GacoFlex UB-64 Series liquid polyurethane is a hydrolytically stable, fire-retardant, two component elastomer.

B. RECOMMENDED USE

Use as a base coat on roofs, mechanical room floors, walking decks and traffic decks where polyurethane coating systems require fire retardance, toughness, fast cure and good solvent resistance. Suitable substrates include plywood, polyurethane foam, properly primed concrete and metal. GacoFlex UB-6421 black is suitable for exterior exposure and may be used as a top coat. GacoFlex UB-6407 gray must be top coated when exposed to the weather. GacoFlex UB-64 must be top coated within 72 hours in order to achieve good top coat adhesion.

C. TYPICAL PROPERTIES

PROPERTY	VALUE	
Color	<u>PRODUCT</u> UB-6407 UB-6421	<u>COLOR WHEN MIXED - PART A & B</u> Gray Black
	NOTE: GacoFlex UB-6407 colors are not controlled, as they are used only as base coat to be overcoated with color-controlled top coats. Base coat colors will vary somewhat from batch to batch.	
Weatherability	GacoFlex UB-6407 is not designed for long term exposure to weather without top coating. Excellent durability when top coated or when GacoFlex UB-6421 is used.	
Chemical Resistance	Good salt, acid, alkali and solvent resistance. Excellent hydrolytic stability up to 160 °F (71 °C).	
Flammability	UL Classified as Class A Roof Covering System per UL790/ASTM E-108	
Toxicity	Inhaling high vapor concentration of solvents could have adverse health effects. Part B contains isocyanate prepolymer, which is toxic if heated in a confined area and inhaled as particulate matter. Wear respiratory protection if material is heated, sprayed, or used in a confined space. Refer to SDS for more information.	
Adhesion	Adheres well to wood, neoprene, Hypalon coatings, acrylic coatings and Gaco primers. See primer recommendations below for specific surfaces. The Gaco primer-sealer system is required to achieve adhesion and minimize blistering when coating concrete. UB-64 may be recoated when dried to touch with a maximum time of 72 hours. Recoating beyond that time will require sanding and a primer.	

D. APPLIED PRODUCT DATA

PROPERTY	ASTM	VALUE	
Tensile	D412	Change in % after exposure ASTM D3137, Hydrolytic Stability 6 months @ 100 °F (38 °C)	
	Strength:	2100 ± 100 psi (14.48 ± 69 MPa)	-3%
	Elongation:	400% ± 25%	
Hardness	D2240	Permanent Set at Break: 15% max	-8%
		90 ± 5 Shore A	

Tear Resistance	D624 Die C lb/inch min.	375 ± 25 (66.9 ± 4.5 kg(f) / cm)
Water Absorption	D471 , 24 hours R.T.	2%
Water Vapor Permeability	ASTM E-96 Procedure B Max. 100% RH difference @ 23 °C	0.02 perm inches
Low Temperature Brittleness	D746	Pass @ -50 °F (-45 °C)

E. PACKAGED PRODUCT DATA

PROPERTY	VALUE
Coverage	Mil ft ² per Gallon: 1200 (29.5 m ² / L /.02 mm) A & B Combined Applied Coverage: 4 Gal/100 ft ² (15.14 L / 9.3 m ²) to yield 1/16" (1.6 mm) thickness.
Solids	Weight: Method 4041 83.5% ± 1% Fed. Std. 141 Volume: 75.0% ± 1%
V.O.C.	Actual V.O.C. content 222 grams per liter
Flash Point	ASTM D-56 (Tag Closed Cup) Part A 22 °F (-6 °C) Part B 45 °F (7 °C)
Storage Stability	Part A and Part B One year at 50 to 80 °F (10 to 27 °C)
Thinner	T-5116 for brush, roller or spray

F. APPLICATION

PROPERTY	VALUE									
Primer	Polyurethane Foam Insulation No primer necessary Wood No primer necessary Concrete GacoFlex E-5691 Metals GacoFlex E-5320									
Mixing Instructions	WARNING: UB-64 Series components cannot be combined with U-66 Series components. GacoFlex UB-6407 and UB-6421: Stir Part A and Part B separately to suspend any settled pigment. Combine equal volumes of Part A and Part B. Mix thoroughly with a power mixer. See Gaco SG-URETHANE for typical equipment recommendations. T-5116 thinner may be added during mixing to thin coating if necessary. Apply by spray, brush or roller with workable viscosity range (pot life), usually one hour at 70 °F (21 °C). NOTE: When application of GacoFlex UB-64 is to surfaces with a temperature between 33 °F (1 °C) and 50 °F (10 °C), mix Part A and Part B which have been warmed to 60 °F (16 °C) minimum, and let mixture stand for 15 minutes before application. This will cause a viscosity increase and thinning may be needed for application. Do not apply GacoFlex UB-64 materials to surfaces below 33 °F (1 °C).									
Pot Life	<table border="0"> <tr> <td><u>PRODUCT</u></td> <td><u>POT LIFE AT 70 °F (21 °C)</u></td> <td><u>INTENDED APPLICATION</u></td> </tr> <tr> <td><u>METHOD</u></td> <td></td> <td></td> </tr> <tr> <td>UB-6407, UB-6421</td> <td>45 Minutes</td> <td>Spray or Roll</td> </tr> </table> NOTE: Do not apply to surfaces below 33 °F (1 °C)	<u>PRODUCT</u>	<u>POT LIFE AT 70 °F (21 °C)</u>	<u>INTENDED APPLICATION</u>	<u>METHOD</u>			UB-6407, UB-6421	45 Minutes	Spray or Roll
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Cure	UB-6407, UB-6421: Applied coating will set in two hours at 70 °F (21 °C) and can be used for light foot traffic after 24 hours cure. For vehicle traffic an additional 24 hours is necessary.									
Recoat	Can be recoated when dry to the touch: UB-6407, UB-6421: 2 hours at 70 °F (21 °C)									

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