Gaco™

Product Data Sheet (PDS):

GacoFlex™ LM60
Revised: 04/2022

GACOFLEX™ LM60
LIQUID-APPLIED POLYURETHANE ELASTOMERIC MEMBRANE

A.) DESCRIPTION

GacoFlex LM60 is a 100% solids liquid applied two component coating that cures into a water resistant polyurethane elastomeric membrane.

LM60H is designed for application on horizontal and low slope surfaces, at the rate of at least four gallons per 100 ft² (15.14 L / 9.3 m²), to yield a 1/16" (1.6 mm) thick membrane. LM60V is designed for the same application rate and yield on vertical surfaces.

B.) RECOMMENDED USES

Intended primarily for use as a high build waterproofing membrane over concrete, metal and plywood. For non-potable water facilities where pH is less than 6.5 an acid resistant version of LM60 is available for use.

C.) APPLIED PRODUCT DATA

PROPERTY	*ASTM*	*VALUE*
TENSILE	**D412** Strength: Elongation: Permanent Set at Break:	240 ± 10 psi (1.65 ± .07 MPa) 300% ± 20 10% max
HARDNESS	**C836** Shore A Using type 00 hardness gauge	77 Shore A min. @ 70 °F (21 °C)
ADHESION	**C836** Peel Strength	11 lbf/inch (average)
TEAR RESISTANCE	**D624** Die C lb/inch min.	30 (5.4 kg(f) / cm)
WATER ABSORPTION	**D471**, 21 day R.T.	1% max.
WATER VAPOR PERMEABILITY	**E96** Procedure BW 100% R.H. Difference	0.012 perm inches
LOW TEMPERATURE BRITTLENESS	**D746**	Pass @ -50 °F (-45 °C)

D.) PACKAGED PRODUCT DATA

PROPERTY	*VALUE*
COLOR	Black
CONSISTENCY	LM60H & LM60V are thixotropic. LM60H ranges between 25,000 to 40,000 centipoises at 75 °F (24 °C). LM60V ranges between 100,000 to 160,000 centipoises at 75 °F (24 °C).
WEATHERABILITY	GacoFlex LM60 has excellent durability up to 180ºF (82ºC). LM60 must be top coated or have roofing granules applied for exterior exposure, LM60 will crack and become brittle in exterior applications if not protected.
CHEMICAL RESISTANCE	Excellent resistance to water immersion, good salt and alkali resistance. Excellent hydrolytic stability up to 150 °F (66 °C). LM60AR version has good acid resistance (refer to the LM60AR PDS for more information).

PACKAGE	Four gallon (15.14 L) kit; 3¾ gallons (14.19 L) Polyol (Part A) in 5 gallon (18.92 L) container, plus one quart (.95 L) Iso (Part B) supplied separately.
COVERAGE	Mil ft² per Gallon:1600 (39.2 m^2 / L /.02 mm) Applied Coverage: 4 Gals./100 ft² (15.14 L / 9.3 m²) to yield 1/16" (1.6 mm) thickness.
SOLIDS	100% volume
V.O.C.	N/A
TOXICITY	GacoFlex LM60 Part B is an isocyanate prepolymer. When mixed with the polyol side (Part A) use adequate ventilation, avoid breathing vapors or spray mist and prolonged or repeated contact with skin. When spraying use a particulate matter mask, an approved organic matter cartridge respirator or fresh air mask.
FLASH POINT	ASTM D56 (Closed up) Above 200 °F (93 °C)
ADHESION	Excellent adhesion to clean, dry, plywood and concrete. Primers may be required for other surfaces. See below for specific primer.
STORAGE STABILITY	One year at 50 – 80 °F (10 to 27 °C)
THINNER	GacoFlex T5111 or T5112. Normally not required, but may be thinned up to 10% by volume if necessary. Thinning more than 10% will exceed VOC requirements.

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

E.) APPLICATION

1.) PRIMER

a. Choose the appropriate primer for the substrate(s) to be coated:
   i. Galvanized Steel — GacoFlex E5320
   ii. Other Metals — GacoFlex E5320
   iii. Plywood — GacoFlex E5691
   iv. Concrete — GacoFlex E5691

2.) MIXING

a. Stir the polyol side (Part A) to suspend any settled pigment. Completely empty the iso (Part B) container into the polyol side (Part A) and power mix for five minutes, scraping the pail side several times.
b. Use a power mixer that will thoroughly agitate the mix (electric or compressed air powered). A Jiffy Mixer PS21 has been found to work well with LM60H or LM60V.
c. Combine fifteen volumes of polyol (Part A) with one volume of iso (Part B) for quantities less than four gallons. Power mixing is mandatory for quantities over two gallons. Extreme care is required to mix in materials on the side and bottom of the mixing container.

3.) POT LIFE

a. One hour at 70 to 80 °F (21 to 27 °C). Can be extended to three hours by thinning with T5112 (≤10%).

4.) APPLICATION

a. For non-potable water applications, prime concrete surfaces with E5691. Use a 5/16" x 5/16" V notched trowel or notched squeegee for application to 60 mil (1.52 mm) thickness. LM60H is self-leveling on horizontal surfaces. LM60V must be flat troweled to a smooth finish since it will not self-level at a normal application.
b. Refer to specification for protection course or covering requirements. Use caution when backfilling or covering to avoid damage to the polyurethane membrane.
   i. ***WARNING*** – LM60 in direct contact with aged or new SBS and EPDM sheet membranes could cause their swelling and deterioration through time due to the strong solvency of the process oil in LM60.