

# Gaco Western

S I N C E 1 9 5 5

## Product Data Sheet:

GacoFlex LM-60AR

September 2012

Supersedes 6/2000

### GACOFLEX® LM-60AR LIQUID APPLIED URETHANE RUBBER MEMBRANE

**DESCRIPTION:** GacoFlex LM-60AR is a 100% solids liquid applied two component coating that cures into a water resistant polyurethane elastomeric membrane.

LM-60HAR is designed for application on horizontal and low slope surfaces, at the rate of at least four gallons per 100 square feet (15.14 L / 9.3 m<sup>2</sup>), to yield a 1/16" (.16 cm) thick membrane. LM-60VAR is designed for the same application rate and yield on vertical surfaces.

**USAGE:** Intended primarily for use as a high build waterproofing membrane over concrete, metal and plywood.

This grade of LM-60 can be used in areas with a pH ≥ 4.

**CONSISTENCY:** LM-60HAR & LM-60VAR are thixotropic. LM-60HAR ranges between 25,000 to 40,000 centipoises at 75°F (24°C). LM-60VAR ranges between 100,000 to 160,000 centipoises at 75°F (24°C).

**COLOR:** Black.

#### APPLIED PRODUCT DATA

**WEATHERABILITY:** GacoFlex LM-60AR has excellent durability up to 150°F (82°C). LM-60AR must be top coated. LM-60AR 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).

**TENSILE:** ASTM D-412  
Strength: 175 ± 10 psi (12 kg/m<sup>2</sup>)  
Elongation: 300% ± 20  
Permanent Set at Break: 10% Max.

**HARDNESS:** ASTM D-2240 30 Min @ 70°F (21°C)  
Shore A

**ADHESION:** ASTM C836 11 lbs/inch (avg.)  
Peel strength

**TEAR RESISTANCE:** ASTM D-624 Die C 30 (5.4 kg(f) / cm)  
Lb./In.Min.

**WATER ABSORPTION:** ASTM D-471 1% Max.  
21 Days R.T.



WATER VAPOR PERMEABILITY: ASTM E-96 Procedure BW 0.012 Perm Inches  
100% R.H. Difference

LOW TEMPERATURE BRITTLENESS: ASTM D-746 Pass @ -50°F (-45°C)

### PACKAGED PRODUCT DATA

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 Square Feet per Gallon: 1600 (39.2 m<sup>2</sup> / L / .02 mm)  
Applied Coverage: 4 Gals./100 Sq. Ft. (15.14 L / 9.3 m<sup>2</sup>) to yield 1/16" (0.16 cm) thickness.

SOLIDS: Volume 100%

V.O.C.: None.

TOXICITY: GacoFlex LM-60AR 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 D-56 (Closed Cup) 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° to 80°F (10° to 27°C).

### APPLICATION

PRIMER: Metals GacoFlex E-5320 or E-5388  
Plywood None Required  
Galvanized Steel GacoFlex E-5320, E-5388 or U-5677  
Concrete GacoFlex U-5677 & E-5320

MIXING INSTRUCTIONS: 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.

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 LM-60HAR or LM-60VAR.

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.

POT LIFE: One hour at 70° to 80°F (21°C to 27°C). Can be extended to three hours by thinning with T-5112 (up to 10%).



APPLICATION:

For non-potable water applications: Trowel or squeegee as mixed. (Prime concrete surfaces with U-5677 & E-5320). Use a 5/16" x 5/16" V notched trowel or notched squeegee for application to 60 mil (1.52 mm) thickness. LM-60HAR is self-leveling on horizontal surfaces. LM-60VAR must be flat troweled to a smooth finish since it will not self-level at a normal application.

Contact Gaco Western for spray application information and for more information on potable water applications.

Refer to specification for protection course or covering requirements. Use caution when backfilling or covering to avoid damage to the polyurethane membrane.

**WARNING** – LM-60AR 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 LM-60AR.

