

MAINTENANCE GUIDELINES:

GacoFlex LM60 Liquid Applied Polyurethane Elastomeric Membrane

Note: These instructions are only intended as a guide to clean and repair surfaces with GacoFlex LM60 and do not include any information on how to detect, prevent or remove any potentially harmful matter from water tanks. For instructions on detecting, preventing or removing potentially harmful matter, please consult with your local health authorities.

GacoFlex LM60 is a 100% solids liquid applied two component coating that cures into a water resistant polyurethane elastomeric membrane. LM60 is intended primarily for use as a high build waterproofing membrane over concrete, metal and plywood.

LM60H 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 m²) to yield a 1/16" (.16 cm) thick membrane. LM60V is designed for the same application rate and yield on vertical surfaces. LM60 has ANSI NSF Standard 61 compliance to line potable water storage tanks 10,000 gallons and over.

- When GacoFlex E5320 2-Part Epoxy Primer/Filler is used, LM60 has ANSI NSF Standard 61 compliance to line potable water storage tanks 10,000 gallons and larger.
- For non-potable water facilities where pH is less than 6.5, an acid resistant version of LM60 is available for use.

1. INSPECTIONS

GacoFlex LM60 surface membranes should be inspected at a frequency of twice a year. In areas with a cold climate, it is recommended that inspections and repairs be made in the early spring and in the late fall, as repairs are difficult to achieve during the winter season.

Items to look for or at include:

- A. Cuts, tears, or delamination of the coating.
- B. Flashing at curbs, walls, penetrations and drains.
- C. Areas of abrasion exposing concrete substrate.
- D. Spalling or structural damage to the concrete substrate.

2. MAINTENANCE AND REPAIR

A. Cleaning

1. For tanks, all the water should be drained out prior to cleaning.
2. The surface should be pressure cleaned with a maximum of 2,000 psi water pressure.
3. For potable water tanks, any stubborn growth or stains should be scrubbed with a soft bristle brush and dish detergent. For non-potable water tanks and other surfaces, GacoWash Concentrated Cleaner may be used in lieu of dish detergent.
4. After cleaning, the surface should be thoroughly rinsed with clean water, making sure that all contaminants are rinsed off.

B. Minor Repairs

Superficial Cuts and Surface Damage:

1. Wipe the surface with GacoFlex T5112 solvent to remove any oil, grease or other contaminants.
2. When area is completely dry, apply a tie-coat of GacoFlex U5677. This should be applied with a rag as thin as possible. (*Thinner is better!*)
3. **Note:** The U5677 tie-coat should not be used in potable water tanks.
4. After curing of the tie-coat, apply GacoFlex LM60 at the rate of 7.5 gallons per 100 square feet (120 mils), overlapping a minimum of 6" onto the existing coating on all sides. Make sure to use LM60H for horizontal surfaces and LM60V for vertical surfaces. Allow to cure 48 hours before refilling tanks. See product data sheet (available at gaco.com) for specific instructions on the use of LM60 Polyurethane.

C. Major Coating Repairs

Cuts, Delamination, and Areas of Abrasion:

1. Remove all loose coating, cutting back to a firm, secured membrane.
2. Clean thoroughly by wiping the surface with GacoFlex T5112 solvent to remove any oil, grease or other contaminants.
3. When the area is completely dry, prime any bare concrete with GacoFlex E5320 2-Part Epoxy Primer at the rate of 1/2 gallon per 100 square feet. Do not apply E5320 onto the existing membrane. Allow the E5320 to fully cure in accordance with GW-1, Sec. II Priming Instructions (available at gaco.com).
4. Apply a tie-coat of GacoFlex U5677. This should be applied with a rag as thin as possible. (*Thinner is better!*)
5. **Note:** The U5677 tie-coat should not be used in potable water tanks.
6. After curing of the tie-coat, apply GacoFlex LM60 (H or V) Polyurethane at 7.5 gallons per 100 square feet (120 mils), carrying coating onto the existing membrane 6" (min). Allow to cure 48 hours.

D. Concrete Repairs

Repair of Damaged, Spalled or Structurally Unsound Concrete:

1. Remove loose concrete to a firm substrate, and loosen and remove coating back to a firm edge.
2. Fill voids or spalled areas with 100% solids epoxy sand grout and allow to cure. (See GW-1, Sec. 1-B). Surface of grout should have a slight "tooth" profile, and should not be glazed.
3. Repair as above: "Major Coating Repairs".
4. **Rinse:** For water tanks, after all necessary repairs are completed and the GacoFlex LM60 has fully cured, rinse the repair areas thoroughly with clean water and make sure all the rinse water drains out prior to filling the tanks with new water.