

MAINTENANCE GUIDELINES: GacoFlex Polyurethane Deck Systems

GacoFlex Polyurethane Deck Systems, such as GacoAutoDeck and GacoPedestrianDeck are seamless, two-component, polyurethane membranes that incorporate organic granules for added slip resistance. The synthetic rubber finish of GacoFlex Polyurethane Deck Systems won't shrink, crack, chip, peel, lift or buckle from normal expansion and contraction caused by temperature shifts or freeze/thaw cycles. When properly applied, GacoFlex Polyurethane Deck Systems will prevent leaks in your structure. **It is recommended that these applications be inspected semi-annually to catch and repair any damage, and for potential re-coating in a period of 8-10 years after installation.**

1. INSPECTIONS

GacoFlex Polyurethane Deck surface membranes should be inspected at a frequency of every other year. It is recommended that inspections and repairs be made in the early spring and in the late fall. Repairs are difficult to achieve during the winter season.

Items to look at include:

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

2. MAINTENANCE AND REPAIR

A. Superficial Cuts and Surface Damage

- 1. Clean the surface so it is free of oil and grease or any accumulated soil using a liquid detergent and a thorough rinse of clear water.
- 2. Wiping with GacoFlex T5116 solvent can be used in lieu of a detergent provided that all oil and grease is removed from the surface and not just spread around.
- 3. When area is completely dry, apply GacoFlex U66 Series Polyurethane Coating at the rate of one gallon per 100 square feet (4.1 L / 10 m²). Allow to cure 48 hours before subjecting to traffic. See product data sheet (available at gaco.com) for specific instructions on the use of GacoFlex U66 Series Polyurethane Coating.

B. Cuts, Delamination, and Areas of Heavy Wear

1. Remove all loose coating, cutting back to a firm, secured membrane.
2. Clean thoroughly with a liquid detergent followed by a clear water rinse.
3. When the area is completely dry, prime the concrete with GacoFlex E5320 2-Part Epoxy Primer applied at the rate of 1/2 gallon per 100 square feet (2 L/10 m²). (No primer is necessary on plywood.) Carry E5320 Primer several inches onto the existing membrane. Allow the E5320 Primer to fully cure in accordance with GW-1, Sec. II Priming Instructions.
4. Apply GacoFlex U66 Polyurethane at the rate of one gallon per 100 square feet (4.1 L/10 m²) (16 wet mils (0.4 mm)), carrying coating onto the edge of the old membrane and feathering out so as not to leave an abrupt edge.
5. When cured, apply GacoFlex U66 Polyurethane at the rate of one gallon per 100 square feet (4.1 L/10 m²).
6. Broadcast 18/40 (1 mm/.42 mm) GacoShell Granules into the wet coating to uniformly cover the surface. When texture coat has cured, sweep up loose granules.
7. Apply two coats of GacoFlex U66 Polyurethane in the desired color at the rate of one gallon per 100 square feet (4.1 L/10 m²) per coat. After final coat, allow a minimum of 48 hours curing time before subjecting surface to traffic.

C. Recoating for Cosmetic Purposes

1. Should it be desired to recoat a deck to change color or to improve overall appearance, the entire surface must first be cleaned with a liquid detergent and thoroughly rinsed with clean water. All dirt, grease and accumulation of soil must be removed.
2. Just prior to coating, do a light solvent wipe with GacoFlex T5116 or T5118. Allow to dry for 15-20 minutes.
3. When the area is completely dry, apply a tie-coat of GacoFlex U5677 Polyurethane Sealer at a rate of one gallon per 300 square feet (3.78 L / 27.9 m²). Allow to dry a minimum of 4 hours but no more than 8 hours maximum prior to applying top coat.
4. Apply GacoFlex U66 Polyurethane and GacoShell Granules in either a 1-coat or 2-coat application:

For a 1-coat application:

Thin GacoFlex U66 Polyurethane with GacoFlex T5118 between 5% and 7%.

Add 4 to 6 lbs. (depending on desired texture) of GacoShell Granules to the fully-mixed GacoFlex U66 Polyurethane and apply at the rate of one gallon per 100 square feet (4.1 L / 10 m²) and roll to uniform granule consistency.

For a 2-coat application:

Thin GacoFlex U66 Polyurethane with GacoFlex T5116 between 5% and 7%.

Base Coat: Apply GacoFlex U66 Polyurethane and apply at the rate of one gallon per 100 square feet (4.1 L / 10 m²) and immediately back-roll.

Broadcast 18/40 (1 mm/.42 mm) GacoShell Granules into the wet coating to uniformly cover the surface. When texture coat has cured, sweep up loose granules.

Top Coat: Apply one coat of GacoFlex U66 Polyurethane in the desired color at the rate of one gallon per 100 square feet (4.1 L/10 m²) per coat. After final coat, allow a minimum of 48 hours curing time before subjecting surface to traffic.

D. 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" and should not be glazed. Recoat area as per section B.

E. Repair of Delaminated Plywood or Replacement of Defective Plywood and Correction of Defective Nailing

1. Small areas of single ply delamination can be cut out, refitted to size and bonded in place using U66 Polyurethane as a contact adhesive. Coat both surfaces with GacoFlex U66 Polyurethane and allow to dry a minimum of one hour but no more than three hours. Place the repair back into the space and firmly press into place. Recoat area as per section B.
2. Remove areas of defective plywood including rotted areas, multi-ply de-laminations or structurally damaged sections back to adequate structural support; i.e. joists, beams. Replace sections of plywood fitted to the repair area. Nail with annular or spiral shank nails. With a grinding disk, feather off old polyurethane deck coating flush with plywood repair. Coat new plywood with GacoFlex U66 Polyurethane at the rate of one gallon per 100 square feet (4.1 L/10 m²); then treat joints in accordance with GW-1 Detail DC. When dry, apply GacoFlex U66 Polyurethane at one gallon per 100 square feet (4.1 L/10 m²) to repair area and broadcast 18/40 (1 mm/.42 mm) granule into wet coat to establish texture, feathering out on old deck surface. A cosmetic coat per section C above can be applied for best uniform color.
3. Defective nailing is usually apparent by "popped" nails that have backed-up out of the deck. This condition is usually due to the use of "smooth" shank nails. To repair, remove nails and re-nail with next size larger, non-rusting annular ring, spiral shank or hot-dipped galvanized nails. Repair area over nails per E.2.above.