GacoPoly™

Application Specification:

GP-10-FPPP

Revised: 04/2025

Division 07 18 16:
GACOPOLY™ FASTPASS PT THREE-COMPONENT, ALIPHATIC POLYURETHANE ELASTOMERIC COATING SYSTEM FOR PEDESTRIAN TRAFFIC DECKS OVER PLYWOOD SUBSTRATES

PART 1 - GENERAL

1.1 SUMMARY

A. This section describes the requirements for installing a liquid applied traffic bearing membrane. This membrane is suitable for heavy duty, waterproof, wear surfaces such as automobile parking decks, traffic ramps, etc. This specification is not intended for use over on grade concrete surface without the use of a moisture mitigating sealer.

B. This specification is prepared in a brief form so that it can be used verbatim in the waterproofing section. It is necessary only to make the selections indicated to complete it. Gaco General Instructions, which are incorporated by reference, provide specific detailed instructions for the guidance of contractors and inspectors.

C. For additional information refer to GP-15-INSTR Traffic Deck Instructions, recommendations on substrate inspection, preparation and coating application that are specific to this traffic deck coating system.

1.2 RELATED SECTIONS

A. Flashing and Sheet Metal: Division 07 53 00

B. Drains, Vents, and Penetrations: Division 07 72 00

1.3 SUBMITTALS

A. Product Data: Submit manufacturer's standard submittal package including specification, installation instructions and general information for each waterproofing material.

B. Applicator Qualifications: Submit current "Licensed Applicator" Certificate from the specified waterproofing manufacturer.

C. Americans with Disabilities Act (ADA) Recommendations: Prior to installation, submit manufacturer's data indicating that the specified waterproofing application conforms to the provisions of the ADA Accessibility Guidelines as published by the US Access Board, 1331 F St. NW, Suite 1000, Washington, DC 20004-1111.

1.4 QUALIFICATIONS

A. Primary polyurethane elastomeric coating system shall be of:

1. Single manufacturer. Manufacturer shall have a minimum of 10 years' experience in the manufacture of materials of this type.
2. Applicator shall have a minimum of 5 years' experience in the application of waterproofing materials of the type specified. Applicator shall possess a current "Licensed Applicator" Certificate from the specified waterproofing manufacturer.

B. Pre-Bid Conference: Ten working days prior to the bid opening there is to be a mandatory Pre-Bid Conference. Anyone not attending the Pre-Bid Conference will not be allowed to bid the project. All products considered an

equal to the specified product or any changes in the scope of work, installation or specifications must be presented at the Pre-Bid Conference. If a change in the specifications is accepted, it will be considered as an alternate and will be presented as an addendum issued five working days prior to the bid opening. No other changes to specification or bid documents will be accepted.

Materials other than those specified shall be submitted to the architect/owner for approval no later than ten days prior to the bid date. In requesting prior approval, it shall be necessary to submit:

1. A letter of certification, signed by an officer of the manufacturer, stating that the alternative material is equal to or better than the specified product.
2. Independent laboratory test data giving physical property values in comparison to the specified material.

D. Pre-Installation Conference: Prior to the commencement of the fluid applied waterproofing coating system, meet at the site with a representative of the coating manufacturer, waterproofing contractor, general contractor, architect and other parties affected by this section. Review the application methods and procedures, substrate conditions, scheduling, and safety.

E. The static co-efficient shall meet the minimum recommendations of the American Disability Act (ADA), for accessible routes, wet and dry surfaces and for leather and rubber heel materials.

1.5 DELIVERY, STORAGE AND HANDLING

A. Store all coating materials in their original unopened containers at 50 to 80 °F (10 to 27 °C) until coating is ready for use.

B. Follow the special handling or storage requirements of the manufacturer for cold weather, hot weather, etc.

C. Safety: Refer to all applicable data, including, but not limited to Safety Data Sheet (SDS), PDS, product labels and specific instructions for specific personal protection requirements.

D. Ventilation: Provide adequate ventilation.

E. Environmental requirements: Proceed with the work of this section only when the existing and forecasted weather conditions will permit the application to be performed in accordance with the manufacturer's recommendations.

1.6 WARRANTY

A warranty is available for commercial projects only. Contractor must be eligible for and make application to: Gaco, prior to the start of the work under this section.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

Acceptable Manufacturers:
Gaco: www.gaco.com

2.2 MATERIALS

A. Primer: GacoPoly™ E5691 Three-Component Epoxy Primer Sealer or GacoPoly Elasto-Poxy Primer VOC Two-Component epoxy primer.

B. Metal Primer: GacoPoly Elasto-Poxy Primer VOC Two-Component epoxy primer.

C. Polyurethane Coating: GacoPoly ™FASTPASS PT Three-Component aliphatic, high solids, single step, traffic coating.

D. Detail Sealant: Permathane SM7120 PU single component polyurethane sealant.

E. Fabric Reinforcement: GacoFlex 66S or Perma-Glas Mesh Polyester Tape.

F. GacoPoly FASTPASS PT Polyurethane traffic coating system has the following physical properties:

TYPICAL PROPERTIES		
Property	**ASTM Test**	**Value**
Tensile Strength	D412	3000 ± 10%
Elongation	D412	400% ± 25
V.O.C.[4]	EPA Method 24	19 g/L
Tear Resistance	D624, Die C	375 ± 25 pli (66.9 ± 4.5 kg (f) / cm
Hardness	D2240	90 ± 5 Shore A
Water Absorption	D471 max, 7-day R.T.	< 1.5%
Water Vapor Permeance	E96, Procedure B max @ 23 °C	1 perm
Pot Life		25 ± 5 minutes at 70 °F (21 °C) and 50 % R.H.
Coverage		45 ft² / gal / Mil (36 mil) *A&B Combined Coverage:* *1.5-gal kit 68 ft² per kit* *4.5-gal kit 200 ft² per kit* *(35 mil DFT).*

G. Flashing and Joint Reinforcing Fabric: Perma-Glas Mesh or GacoFlex™ 66S Polyester Tape as required for flashing drains, base angles, etc.

H. Miscellaneous Accessories: All items incorporated into this coating system shall be compatible with and approved by the coating manufacturer.

NOTE: Allow additional material for rough or irregular surfaces and for material loss during the application.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Verify that the substrate is ready to receive the work; the surface is clean, dry, and free of surface contaminants that could affect the bond.

B. Metal surfaces shall be sound and fastened, free of voids and without offsets at joints. Ensure fasteners are driven flush. (Metal surfaces to be coated are primed with GacoPoly Elasto-Poxy Primer VOC or GacoPoly™ E5320 Primer.

C. Verify with architect, general contractor, and manufacturer that substrate conditions are acceptable to receive waterproofing application.

3.2 PREPARATION

A. Surfaces, which are to receive coating, shall be free of contamination such as water, curing compounds, hardeners, bond-breakers and paint.

B. Plywood is to be of exterior grade quality and minimum APA (The Engineered Wood Association) grade mark of BC EXT with B side to receive coating. Plywood shall be at a minimum 5/8″ in thickness (3/4” is preferred) and Tongue and Groove. If tongue and groove is not used, then “blocking” is required at all intersections.
The plywood deck shall be sloped a nominal 1/4″ to 12″ and constructed to drain freely.
A maximum of 1/16″ space between sheets of plywood is maintained while deck is being placed. Spiral or Ring-Shank nails or appropriately sized exterior decking screws are to be used and installed flush with the plywood surface. Nails or screws shall not be countersunk. Prior to application of pedestrian traffic coating system, protect plywood decking from moisture.
Note: OSB board IS NOT acceptable.

C. Seams between plywood sheets and those between metal flashing and the plywood deck shall be reinforced by imbedding a 4-inch (10 cm) wide strip of Perma-Glas Mesh tape or Gaco 66S tape in wet base coat or SM7120 PU, which is brushed evenly over the seam in a width of about 5 inches (12.7 cm) and a thickness of about 20 mils wet (.5 mm).

D. The application of base coat can subsequently be made immediately over the entire area, including the taped areas.

3.3 INSTALLATION

A. Technical Advice: The installation of this waterproofing membrane shall be accomplished in the presence of or with the advice of the manufacturer's technical representative. Contact the nearest regional office for assistance.

Do not apply product if substrate is below 50 °F (10 °C) or above 110 °F (43 °C).

B. Plywood Primer: Brand new clean dry plywood should not require primer, if surface conditions dictate the use of primer use GacoPoly Elasto-Poxy Primer VOC, apply one coat of GacoPoly Elasto-Poxy Primer VOC by roller at the rate of 1 gallon per 250 ft² (3.78 L / 18.6 m²). Allow 2-3 hours till "Thumbprint tacky" not to exceed 8 hours. For maximum solvent resistance, see drying time directed in Gaco General Instructions "GP-2-2 Primer Systems For Various Substrates". Consult Gaco for alternate primer/sealer recommendations.

C. Detail Work: Use Permathane SM7120 PU polyurethane sealant as required. Install Polyester Reinforcing Tape at all changes of plane and irregular surfaces using Permathane SM7120 PU polyurethane sealant. Treat cracks in the surface with Permathane SM7120 PU polyurethane sealant. If fabric reinforcement is required use Permathane SM7120 PU polyurethane sealant and Perma-Gas Mesh or GacoFlex 66S Polyester Tape.

BASECOAT: GacoPoly Elasto-Deck 6500

E. GacoPoly Elasto-Deck 6500 Mixing: Lightly stir the A-Component (pigmented side) for 1-3 minutes using a jiffy Mixing blade to evenly distribute the pigments that may have settled to the bottom of the container. Pour "B" Component (clear side) into the "A" Component.

F. Scrape the container to drain all the "B" Component into the "A" Component. Immediately mix thoroughly using a jiffy mixing blade attached to a low-speed drill (400 – 500 rpm speed) to a uniform color without any streaks. Mix for 2-3 minutes. Once mixed, immediately pour Elasto-Deck 6500 onto the surface of the substrate. GacoPoly Elasto-Deck 6500 shall be applied to the primed concrete at a rate of 80 square feet per gallon (20 mil WFT).
Use an 1/8" notched squeegee to evenly apply the material, then back-roll using a 3/8 nap, shed free roller to break air bubbles.
Note: Higher temperatures will reduce the work life.
Use of a spiked roller during application can reduce pinholes and bubbles.
Allow the GacoPoly Elasto-Deck 6500 basecoat application to cure 12-16 hours (Not to exceed 24 hours) before proceeding with the GacoPoly FastPass topcoat application.

TOPCOAT: GacoPoly FastPass

G. GacoPoly FastPass Mixing: After opening the pail lid, remove the plastic tray insert that contains the Aggregate and Catalyst.
Remove the tray insert and place it on the lid. Remove the Catalyst Can and set it aside next to the insert. Caution! Use care while Mixing the Kit. Prevent whipping air into the material while mixing – use a slow and Methodical mixing approach.

H. Lightly stir the Pigmented A-Component in the pail for about a minute Using a jiffy mixing blade and a low-speed mechanical mixer (400 – 500 rpm speed) to evenly distribute the pigments and obtain a uniform color. Slowly add the pre-proportioned aggregate from the tray insert into the A-Component under low-speed mixing.
Scrape the bottom and sides of the pail and ensure aggregate is evenly mixed within the A-Component. Mix for 2 minutes.
Slowly pour the B-Component (Oblong quart can) into the Aggregate Mixed Component Pail while mixing so that the B- Component gets pulled into the vortex of the mixing paddle. Scrape the sides of the container to ensure a good mix.
Mix for 2 - 3 minutes until a homogenous mixture and a uniform color is obtained.

I. Application: After mixing, immediately pour the mixed GACOPOLY FASTPASS PT kit onto the substrate. Caution! Leaving the mixed material in the pail will shorten the working time and pot life that will result in loss of material. To achieve an effective squeegee application, apply the GACOPOLY FASTPASS at 45 ft² / gal / Mil (36 mil), pour the mixed material in a ribbon fashion and not into one large puddle.

Using a 1/4” V-Notched Squeegee or a trowel, (At an angle) apply GacoPoly FASTPASS PT over the entire area including the detailed areas (cracks, joints, flashing etc.). To prevent improper thickness. the notched squeegee must be stiff enough to not bend when pressure is placed on it.
Push the squeegee behind ribbon of material with consistent pressure on the squeegee. Do not pull squeegee towards the applicator. The Material applied should pass through the squeegee notches. After squeegeeing material to proper thickness, using a ¼” nap, shed free, solvent resistant roller cover, back-roll the applied material in two directions, one perpendicular to the other.
To achieve proper thickness, wet the roller with the material prior to back-rolling. Dry roller will result in improper thickness.
Do not apply pressure with roller. Do not push material with roller. Avoid back-rolling more than one time in each direction
to prevent inconsistent texture. A spiked roller could be considered also to help control blisters, craters, and/or pinholes.

3.4 FIELD QUALITY CONTROL

A. The contractor for work under this section shall maintain a quality control program specifically to verify compliance with this specification. A daily log shall be kept to record actions in the field.

B. Inspections: A minimum of three (Substrate, Application and Final) Inspections by a manufacturer’s representative is required on all projects requiring a warranty.

C. Thickness: Minimum over all dry film thickness of the completed fluid applied vehicular waterproofing coating system will average 35 mils.