

**DIVISION 07 18 13:
GACOFLEX™ ACRYLIC ELASTOMERIC COATING SYSTEM
FOR ROLLER APPLICATION ON PLYWOOD AND CONCRETE DECKS**

PART 1 - GENERAL

1.1 SUMMARY

This section describes the requirements for the installation of a durable, skid resistant, waterproof surface suitable for foot traffic, patio furniture, and equipment areas that are not susceptible to ponding water.

Ponding water is defined as standing water in excess of 100 ft² (9.3 m²) or in excess of ½" (13 mm) deep or water that does not evaporate within 72 hours.

This system is not intended for use over on-grade concrete.

GacoFlex™ acrylic coatings do not have a strong odor and the wet coatings will not burn. Equipment can be easily cleaned with water and detergent.

1.2 RELATED SECTIONS

- A. Cast-In-Place Concrete: Division 03 30 00
- B. Flashing and Sheet Metal: Division 07 60 00
- C. Drains, Vents, and Penetrations: Division 07 72 00

1.3 SUBMITTALS

- A. 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 manufacturers 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 waterproofing materials shall be product of a single manufacturer. Primary manufacturer shall recommend secondary materials. Manufacturer shall have a minimum of 10 years. experience in the manufacture of materials of this type.



- B. Applicators shall have a minimum of 5 years, experience in application of waterproofing materials of the type specified. Applicator shall possess a current "Licensed Applicator" Certificate from specified waterproofing manufacturer.
- C. Pre-Bid Conference: 10 working days prior to 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 a bid amendment issued 5 working days prior to the bid opening. No other changes to specification or bid documents will be accepted.
- D. Pre-Installation Conference: Just prior to commencement of fluid application waterproofing system, meet at site with representative of coating manufacturer, waterproofing contractor, general contractor, architect and other parties affected by this section. Review methods and procedures, substrate conditions, scheduling and safety.
- E. The static coefficient shall exceed the minimum recommendations of the American Disability Act (ADA), for accessible routes, for wet and dry surfaces, and for leather and rubber heel materials.

1.5 DELIVERY, STORAGE AND HANDLING

- A. Store all coating materials in original unopened containers at 50 to 80 °F (10 to 27 °C) until ready to use.
- B. Follow the special handling or storage requirements of 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 instructions for personal protection requirements.
- D. Ventilation: General room ventilation is satisfactory.
- E. Environmental requirements: Proceed with work of this section only when existing and forecasted weather conditions will permit the application to be performed in accordance with manufacturer's recommendations.

1.6 JOB CONDITIONS

- A. 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.
- B. Ventilation: Provide adequate ventilation to prevent the accumulation of hazardous fumes during application.
- C. Weather: Proceed with the work of this section only when existing and forecasted weather conditions will permit the application to be performed in accordance with the manufacturer's recommendations.

1.7 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 Western: www.gaco.com



2.2 MATERIALS

- A. Acrylic Coating: GacoFlex A38 Acrylic Series Coatings.
- B. Granule: GacoShell™ Granule, a hard (90 Rockwell Scale), non-crushable, non-extractable organic granule with a specific gravity of 1.3. Size 40/60 unless otherwise specified.
- C. Primer: GacoFlex E5691 Three-component Epoxy Primer Sealer.
- D. Flashing and Joint Reinforcing Fabric: Gaco Western 66B and 66S Polyester Reinforcing Tape. GacoFlex NF621 Neoprene Sheet Flashing and related materials as required for flashing drains, base angles, etc.
- E. Other Materials Required: Thinner and cleaner, reinforcing materials and sealant supplied.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verify that substrate is ready to receive work; surface is clean, dry and free of substances that could affect bond.
- B. Verify that the plywood shall conform to U.S. DOC PS 1 or CSA 0325 and shall carry the grade trademark of the Engineered Wood Association - APA AB EXT or APA AC EXT are acceptable. Underlayment grade plywood (APA AC EXT Underlayment) with solid, plugged cross bands under the face veneer is recommended for commercial installations. Refer to General Instructions "GW-2-3 Plywood Selection" and Installation for complete information on the installation and fastening of plywood.

Unacceptable Grades: APA C-D EXT, APA C-C EXT, Exposure 1 markings, oriented strand board (OSB), waferboard and Lauan or Mahogany plywood are **NOT** suitable substrates for liquid-applied coating systems. This is due to poor dimensional stability, weak glue lines which allow buckling or lifting of the top ply, and excessive splintered, leafed and raised surface grain.

- C. Do not begin the work until the concrete substrate has cured 28 days and/or has achieved a moisture content of no greater than 6.8%.
- D. Prior to application of waterproofing perform calcium chloride test, to verify a moisture content of 6.8% or less has been established.
- E. Verify that the concrete meets the requirements of the coating manufacturer. Refer to Gaco Western's General Instructions "GW-2-1 Curing and Drying of Concrete" for complete information on the installation and finishing of concrete.
- F. Verify with architect, general contractor and manufacture that substrate conditions are acceptable to receive waterproofing application.

3.2 PREPARATION

- A. Clean substrate to remove all surface contaminants. Refer to General Instructions Section "GW-1-1 Surface Preparation".
- B. Mask off all adjoining areas that will not receive the fluid applied waterproofing.
- C. Provide a suitable workstation to mix coating materials.



3.3 INSTALLATION

- A. Technical Advice: The installation of this waterproofing membrane shall be accomplished in the presence of, or with advice of the manufacturer's technical representative. Contact nearest regional office for assistance.
- B. Concrete Primer: Apply one coat of GacoFlex E5691 Primer Sealer by roller at the rate of 1 gallon per 200 ft² (3.78 L / 9.3 m²). Allow to dry until nearly tack free where water has evaporated leaving a clear film before proceeding to next coat. Recoat window is approximately 2 hours (depending on temperature and humidity) to 28 days.
- C. Taping: Apply GacoFlex A38 Acrylic by brush, in a 6" (152 mm) wide stripe coat, centered over all joints, penetrations and changes of plane. While coating is still wet, unroll 66B Tape onto coating and apply a coat of GacoFlex A-38 Acrylic over tape, smoothing out wrinkles and fish mouths.

NOTE: On plywood, substrate taping application will require approximately 1/3 to 1/2 gallon per 100 ft² (1.25 to 1.89 L / 9.3 m²).

NOTE: For a more uniform appearance, lightly sand the seam tape edges.

- D. First Base Coat: Apply GacoFlex A38 Acrylic by roller in an overall coat to secure a total minimum coverage of 3/4 gallon per 100 ft² (2.84 L / 9.3 m²), (Total wet film thickness - 5 mils (.30 mm)). Recoat window a minimum 6 hours, but no more than 72 hours
- E. Second Base Coat: Apply GacoFlex A38 Acrylic by roller to secure a total minimum coverage of 3/4 gallon per 100 ft² (2.84 L / 9.3 m²); Total wet film thickness -5 mils (.30 mm). Recoat window a minimum 6 hours, but no more than 72 hours
- F. Third and Forth Coat and Texture: Apply two texture top coats each consisting of 3/4 gallon (2.84 L) of GacoFlex A38 Acrylic coating and 3/4 lb or 2 cups (.34 kg) GacoShell 40/60 per 100 ft² (9.3 m²). Thoroughly blend GacoShell 40/60 granules into coating before applying.

NOTE: If not recoated within 72 hours, deck must be cleaned with GacoFlex GacoWash Concentrated Cleaner. Clean and rinse thoroughly with clean water. Do not allow the cleaning solution to dry before rinsing. Allow deck to dry completely before proceeding with coating. Drying times vary depending on weather conditions such as temperature, humidity, and air movement.

NOTE: Best results are achieved by applying texture coats in parallel overlapping roller passes/ Crosshatching i.e., North-South or East-West. This will result in a pleasing uniform texture with is easy to clean. Allow 48 hours before deck is put into use.

3.4 FIELD QUALITY CONTROL

Thickness: The finished dry film thickness will average 21 mils (.53 mm) of acrylic elastomer and will have an approximate total thickness with GacoShell of 30 mils (.76 mm).

