

Application Specification:

GW-14-A
May 2006
Supersedes 1/02

Section: 0752
GACOFLEX ACRYLIC ELASTOMERIC COATING SYSTEM
FOR ROLLER APPLICATION ON PLYWOOD AND CONCRETE DECKS

PART 1 - GENERAL

1.1 SUMMARY

- A. This section describes the installation of a durable, skid resistant and waterproof surface suitable for foot traffic, patio furniture and similar equipment when applied to a non-ponding area.

This system is not intended for use over on-grade concrete, or for commercial or heavy traffic.

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: Section 03300
- B. Flashing and Sheet Metal: Section 07600
- C. Drains, Vents, and Penetrations: Section 07700

1.3 SUBMITTALS

- A. Data: Submit manufacturers standard submittal package including specification, installation instructions, and general information for each waterproofing material.
- B. Applicator Qualifications: Submit current "Qualified 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.

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- B. Applicators shall have a minimum of 5 years experience in application of waterproofing materials of the type specified. Applicator shall possess a current "Qualified 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 60° to 80°F (16° 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 MSDS sheets, PDS sheets, 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.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

Acceptable Manufacturer:

Gaco Western

2.2 MATERIALS

- A. Acrylic Coating: GacoFlex A-38 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 on 60 unless otherwise specified.
- C. Primer/Sealer: GacoFlex E-5320 two-component Epoxy Concrete Sealer.
- D. Other Materials Required: Thinner and cleaner, reinforcing materials, caulking and flashing compounds are to be supplied by Gaco Western.

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. Product Standard PS 1-95 and shall carry the grade trademark of The Engineered Wood Association - APA EXT or APA AC EXT are acceptable. Underlayment grade plywood (APA AC EXT Underlayment) with solid, plugged cross bands under the face veneer are recommended for commercial installations.

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.

Refer to Gaco Western's General Instruction GW-2-3 for complete information on the installation and fastening of plywood.

- C. Do not begin work until concrete substrate has cured 28 days, minimum.
- D. Verify that concrete meets requirements of coating manufacturer. Refer to Gaco Western's General Instruction Section GW-2-1 for complete information on installing and finishing concrete.
- E. Verify that all other work involved with this area, done under other sections, has been completed and accepted by architect and general contractor prior to starting the waterproofing application.

3.2 PREPARATION

- A. Clean substrate to remove all surface contaminants. Refer to Gaco Western's 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/Sealer: Apply one coat of GacoFlex E-5320 by roller at the rate of 1 gallon per 250 square feet (3.78 L / 9.3 m²). Allow 3 to 24 hours drying time. For maximum solvent resistance, see drying time directed in Gaco Western's General Instructions GW-2-2. Drying times vary depending on weather conditions such as temperature, humidity and air movement.
- C. Taping: Apply GacoFlex A-38 acrylic, by brush, in a 6-inch (15.24 cm) wide stripe coat, centered over all joints, penetrations and changes of plane.

While this coat is still wet, unroll 66B fabric tape onto coating and apply a coat of GacoFlex A-38 over tape, smoothing out wrinkles and fishmouths. On plywood, substrate taping application will require approximately 1/3 to 1/2 gallon per 100 square feet (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 A-38 acrylic by roller in an overall coat to secure a total minimum coverage of $\frac{3}{4}$ gallon per 100 square feet (2.84 L / 9.3 m²), (Total wet film thickness - 12 mils (.30 mm)).
- E. Second Base Coat: Apply GacoFlex A-38 by roller to secure a total minimum coverage of $\frac{3}{4}$ gallon per 100 square feet (2.84 L / 9.3 m²), (Total wet film thickness -12 mils (.30 mm)).
- F. Top Coats and Texture: Apply two texture top coats each consisting of $\frac{3}{4}$ gallon (2.84 L) of GacoFlex A-38 acrylic coating and $\frac{3}{4}$ pound or 2 cups (.34 kg) GacoShell per 100 square feet (9.3 m²). Thoroughly blend GacoShell granules into coating before applying.

Allow the first coat to dry before applying second coat, minimum 6 hours, but no more than 72 hours. If left longer than 72 hours, deck must be cleaned with GacoFlex D-09. Wash the deck with GacoFlex D-09 etching detergent 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.

Best results are achieved by applying texture coats in parallel overlapping roller passes, 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

- A. 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 (.76mm).