

# Gaco Western

S I N C E 1 9 5 5

## *Application Specification:*

**MF-20-L**  
**April 2014**  
Supersedes 10/11

### **DIVISION 09 67 13: GACOFLEX ACRYLIC LATEX COATING SYSTEM FOR MECHANICAL ROOM FLOORS**

#### **PART 1 - GENERAL**

##### **1.1 SUMMARY**

This specification covers the construction of a durable and waterproof surface suitable for mechanical room floors. Its primary use is to waterproof floors over areas of an occupied space. It can be applied with a non-skid texture if desired. Once the coating has dried, it has excellent resistance to hot and cold water and is very resistant to soiling or staining.

GacoFlex Latex 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. Product Data: Submit manufacturer's 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.

##### **1.4 QUALIFICATIONS**

- A. The primary waterproofing materials shall be products of a single manufacturer. The primary manufacturer shall recommend the secondary materials. The 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 the application of waterproofing materials of the type specified. The applicator shall possess a current "Qualified Applicator" Certificate from the specified waterproofing manufacturer.
- C. 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 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 addendum and will be presented as a bid amendment issued five working days prior to the bid opening. No other changes to the specification or bid documents will be accepted.

- D. Pre-Installation Conference: Just prior to the commencement of the fluid application waterproofing 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 methods, procedures, substrate conditions, scheduling and safety.

## 1.5 DELIVERY, STORAGE AND HANDLING

- A. Store all coating materials in their original unopened containers at 60° - 80°F (16° - 26°C) until ready for use.
- B. Follow the special handling or storage requirements of the manufacturer for cold and hot weather, etc.
- C. Safety: Refer to all applicable data, including, but not limited to MSDS, Product Data Sheets, product labels and specific instructions for personal protection requirements.
- D. Ventilation: General room ventilation is satisfactory.
- E. Environmental requirements: 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.

## PART 2 - PRODUCTS

### 2.1 MANUFACTURERS

Gaco Western, LLC  
www.gaco.com

### 2.2 MATERIALS

- A. Cleaner: GacoFlex GacoWash Concentrated Cleaner.
- B. Primer: GacoFlex E-5320 Two-Component Epoxy Primer.
- C. Coating: GacoFlex A-38 Acrylic Series Coatings.
- D. Tape: GacoFlex 66B Polyester Reinforcing Tape
- E. 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 (.42 mm on .25 mm) unless otherwise specified.
- F. Other Materials Required: Thinner, reinforcing materials, sealant and Gaco Western LLC shall supply flashing compounds.

## 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. 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%.
- C. Prior to application of waterproofing perform calcium chloride test, to verify a moisture content of 6.8% or less has been established.
- D. Verify that the concrete meets the requirements of the coating manufacturer. Refer to Gaco Western's General Instruction GW-2-1 for complete information on the installation and finishing of concrete.
- E. Verify with architect, general contractor and manufacture that substrate conditions are acceptable to receive waterproofing application.

### 3.2 PREPARATION

- A. Clean the substrate to remove any and all surface contaminants. Refer to Gaco Western's General Instructions GW-1-1 Surface Preparation.
- B. Mask off all adjoining areas that are not to receive the fluid applied waterproofing.
- C. Provide a suitable workstation to mix the coating materials.

### 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 Gaco Western Regional Office for assistance.
- B. Primer: Apply one coat of GacoFlex E-5320 Primer by roller at the rate of one gallon per 200 square feet (2 L / 10 m<sup>2</sup>). Allow drying a minimum of 6 hours. For maximum solvent resistance, see drying time directed in Gaco Western's General Instructions GW-2-2.
- C. Taping: Apply GacoFlex A-38 Acrylic Series by brush in a six inch wide stripe coat centered over all the joints, penetrations and changes of plane to be taped.  
  
While this coat is still wet, unroll GacoFlex 66B Polyester Tape into the coating and apply a coat of GacoFlex A-38 Acrylic Series over the tape, smoothing out wrinkles and fishmouths. On plywood substrate, taping application will require approximately 1/3 to 1/2 gallon per 100 sq. ft. (1.3 to 2 L / 10 m<sup>2</sup>).
- D. Base Coat: Apply A-38 Acrylic Series by roller in an overall coat to secure a total minimum coverage of .75 gallon per 100 square feet. (3.1 L / 10 m<sup>2</sup>), (Total wet film thickness – 5 mils)
- E. Second Coat: Apply A-38 Acrylic Series by roller to secure a total minimum coverage of .75 gallon per 100 square feet (3.1 L / 10 m<sup>2</sup>). (Total wet film thickness -5 mils.)
- F. Top Coats and Texture: Apply two texture top coats consisting of .75 gallon (3.1 L / 10 m<sup>2</sup>) of A-38 Acrylic Series and 3/4 pounds of GacoShell per 100 square feet (37 gm / 10 m<sup>2</sup>) for each coat. Thoroughly blend the granules and coating before applying.

Allow the first coat to dry a minimum of 6 hours, but no more than 72 hours before a second coat can be applied. If left longer than 72 hours, the deck must be cleaned with GacoWash, rinsed thoroughly and allowed to dry completely before proceeding.

The 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 the floor is put into use.

### 3.4 FIELD QUALITY CONTROL

- A. Thickness: The finished dry film thickness will average 21 mils (.5 mm) of acrylic rubber elastomer and will have an approximate total thickness with GacoShell of 30 mils (.8 mm).