

Section: 09670
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. Primary use is to waterproof floors over areas of 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: Section 03300
- B. Flashing and Sheet Metal: Section 07600
- C. Drains, Vents, and Penetrations: Section 07700

1.3 SUBMITTALS

- A. Product 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.

1.4 QUALIFICATIONS

- A. Primary waterproofing materials shall be products of a single manufacturer. The 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 the application of waterproofing materials of the type specified. Applicator shall possess a current "Qualified Applicator" certificate from the 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 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

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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 the fluid application waterproofing system, meet at the site with a representative of the coating manufacturer, the waterproofing contractor, the general contractor, the architect and other parties affected by this section. Review methods and procedures, substrate conditions, scheduling and safety.

1.5 DELIVERY, STORAGE AND HANDLING

- A. Store all coating materials in the 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 weather, hot weather, etc.
- C. Safety: Refer to all applicable data, including, but not limited to MSDS sheets, PDS sheets, Product labels, specific instructions for specific 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 the manufacturer's recommendations.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

Gaco Western, Inc.

2.2 MATERIALS

- A. Acrylic Latex Coating: GacoFlex A-38(Formerly A-58) 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 (.42 mm on .25 mm) unless otherwise specified.
- C. Primer/Sealer: GacoFlex two component Epoxy Concrete Sealer E-5320.
- D. Other Materials Required: Thinner and cleaner, reinforcing materials, caulking and Gaco Western, Inc shall supply flashing compounds.

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

3.2 PREPARATION

- A. Clean substrate to remove any and all surface contaminants. Refer to Gaco Western's General Instructions GW-1-1 (formerly GW-1, 1B), 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 regional office for assistance.
- B. Primer/Sealer: Apply one coat of GacoFlex E-5320 by roller at the rate of ½ gallon per 100 square feet (2 L / 10 m²). Allow drying a minimum of 24 hours. For maximum solvent resistance, see drying time directed in Gaco Western's General Instructions GW-2-2 (formerly GW-1 Section II).
- C. Taping: Apply A-38 acrylic latex by brush in a five to six inch wide strip coat centered over all joints, penetrations and changes of plane to be taped.

While this coat is still wet, unroll 66B fabric tape into the coating and apply a coat of A-38 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 m²).

- D. First Base Coat: Apply A-38 acrylic latex by roller in an overall coat to secure a total minimum coverage of 3/4 gallon per 100 square feet. (3.1 L / 10 m²), (Total wet film thickness - 12 mils (.3 mm)).
- E. Second Base Coat: Apply A-38 by roller to secure a total minimum coverage of 3/4 gallon per 100 square feet (3.1 L / 10 m²). (Total wet film thickness -12 mils.)
- F. Top Coats and Texture: Apply two texture top coats consisting of 3/4 gallon (3.1 L / 10 m²) of A-38 acrylic latex and 3/4 pounds of GacoShell per 100 square feet (37 gm / 10 m²) for each coat. Thoroughly blend the granules before applying.

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

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 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).