

Section : 09670
GACOFLEX SLIP-RESISTANT EPOXY/ACRYLIC
FLOOR SYSTEM

PART 1 - GENERAL

1.1 SUMMARY

- A. This specification covers the application of a chemical resistant durable, slip-resistant wear surface suitable for interior floors and exterior walkways. This system combines hardness and durability of epoxy with the excellent weathering characteristics of acrylic.
- B. E-5320 series is a two-component polyamide epoxy coating that cures by chemical reaction to form a hard dense film. A-38 series is a water-borne, single component elastomeric coating characterized by excellent hardness, color stability, gloss retention and water resistance.
- C. The application specification is prepared in brief form so that it can be incorporated in the specialty flooring section of this specification. General Instructions GW-1, which is incorporated by reference, provides detailed step-by-step instructions for guidance of contractors and inspectors.

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 Job Walk
- 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°C - 27°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, and specific 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 the manufacturer's recommendations.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturers:
 - 1. Gaco Western, Inc.
 - 2. Approved Equal

2.2 MATERIALS

- A. Primer: GacoFlex E-5320 two component water based epoxy primer.
- 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. Base Coat: GacoFlex E-5320 series two component water based polyamide epoxy coating.
- D. Top Coats or A-38 series acrylic latex coating.

- E. Other Materials Required: Concrete repair material, caulking and flashing shall be supplied or approved by Gaco Western, Inc.

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 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 Section 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. General: Apply primer and acrylic coatings as directed in this specification and in Gaco Western's General Instruction GW-1.

- C. Primer: Prime all surfaces to receive coating with one coat of GacoFlex E-5320 primer at the rate of 1/2 gallon per 100 square feet (2 L / 10 m²). Allow to dry a minimum of 12 hours before applying base coat.
- D. Epoxy Base Coat: Apply GacoFlex E-5320 series at the rate of 1 gallon per 100 square feet (4.1 L / 10 m²), (16 mils (.4 mm) wet). While this coating is still wet, broadcast the aggregate at a rate of 5 to 20 pounds per 100 square feet (.7 to 2.3 kg / 10 m²). Allow to cure for 12 to 24 hours before application of the topcoats.
- E. Acrylic Top Coats: Apply two coats of or A-38 series in the desired color at the rate of 3/4 gallons per 100 square feet (3.1 L / 10 m²), (12 mils (.3 mm) wet per coat) allowing 6-18 hours between coats. Allow to cure for 24-48 hours before floor is put into use.

3.4 FIELD QUALITY CONTROL

- A. Thickness: Finished dry film thickness will average 7 dry mils (.2 mm) of epoxy base coat, 10 dry mils (.3 m) of acrylic top coat and will have an approximate total thickness with primer of 20 dry mils (.5 mm).