

SECTION 096723 RESINOUS FLOORING

PART 1 - GENERAL

1.1 GENERAL REQUIREMENTS

- A. Work of this Section, as shown or specified, shall be in accordance with the requirements of the Contract Documents.

1.2 SECTION INCLUDES

- A. The Work of this Section includes all labor, materials, equipment, and services necessary to complete the resinous flooring and base where noted on Finish Schedule.
 - 1. Epoxy resin flooring at mechanical rooms.

1.3 RELATED SECTIONS

- A. Cast-in-Place Concrete - Section 033000.
- B. Floor drains - Division 22.

1.4 SUBMITTALS

- A. General: Submit the following in accordance with Conditions of Contract instructions and general recommendations for the resinous flooring specified herein.
- B. Samples for initial selection purposes in form of manufacturer's color charts showing full range of colors and finishes available.
 - 1. Submit three (3) 2-1/2" x 4" samples of each material specified herein with color from color chart selection designated by the Architect.
- C. Material certificates signed by manufacturer certifying that the composition flooring complies with requirements specified herein.
- D. Maintenance written instructions for recommended maintenance practices.

1.5 QUALITY ASSURANCE

- A. Installer Qualifications: Engage an experienced Installer or applicator who has specialized in installing flooring types similar to that required for this Project and who is acceptable to manufacturer of primary materials.
- B. Single-Source Responsibility: Obtain resinous flooring materials, including primers, resins, hardening agents, and finish or sealing coats, from a single manufacturer.

1.6 DELIVERY, STORAGE AND HANDLING

- A. Deliver materials in original packages and containers with seals unbroken and bearing manufacturer's labels containing brand name and directions for storage and mixing with other components.

- B. Store materials to comply with manufacturer's directions to prevent deterioration from moisture, heat, cold, direct sunlight, or other detrimental effects.

1.7 PROJECT CONDITIONS

- A. Environmental Conditions: Comply with resinous flooring manufacturer's directions for maintenance of ambient and substrate temperature, moisture, humidity, ventilation, and other conditions required to execute and protect Work.

1.8 WARRANTY

- A. Provide manufacturer's warranty with flashing endorsement, signed by Applicator and authorized representative of manufacturer, and warranting flooring materials against failures resulting from normal exposure for a period of three (3) years.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Subject to compliance with the requirements of this specification, resinous flooring shall be "Dex-O-Tex M-E Flooring System Membrane and Floor Finish" as manufactured by Crossfield Products Corp., at nominal 3/16" thick, or comparable product by Stonhard Corp., Tnemec, General Polymers (Sherwin-Williams) or approved equal.

2.2 SUPPLEMENTAL MATERIALS

- A. Flashing, Sheets, Cant Strips and Accessories: Types as recommended by flooring materials manufacturer, supplied for locations indicated and for locations recommended by manufacturer.

PART 3 - EXECUTION

3.1 INSPECTION

- A. Examine the areas and conditions where resinous flooring is to be installed and correct any conditions detrimental to the proper and timely completion of the work. Do not proceed with the work until unsatisfactory conditions have been corrected by the Contractor in a manner acceptable to the Architect.

3.2 PREPARATION

- A. Substrate: Perform preparation and cleaning procedures according to flooring manufacturer's instructions for particular substrate conditions involved, and as specified. Provide clean, dry, and neutral substrate for flooring application.
- B. Concrete Surfaces: Shot-blast, acid etch or power scarify as required to obtain optimum bond of flooring to concrete. Remove sufficient material to provide a sound surface free of laitance, glaze, efflorescence, and any bond-inhibiting curing compounds or form release agents. Remove grease, oil, and other penetrating contaminants. Repair damaged and deteriorated concrete to acceptable condition. Leave surface free of dust, dirt, laitance, and efflorescence.
- C. Materials: Prepare materials according to flooring system manufacturer's instructions.

- D. Starting of work implies acceptance of slab.

3.3 APPLICATION

- A. General: Apply each component of resinous flooring system according to manufacturer's directions to produce a uniform monolithic flooring surface at the nominal thickness required.
 - 1. Start installation of flooring only in presence of manufacturer's technical representative who must approve (in writing to the Architect) condition of the prepared floor slab.
- B. Flooring system shall include the following minimum applications:
 - 1. Detail all cracks and control joints according to manufacturer's requirements.
 - 2. Bonding coat per manufacturer's requirements.
 - 3. Membrane coat per manufacturer's requirements.
 - 4. Reinforcement fabric as required by manufacturer.
 - 5. Smoothing coat for reinforced membrane systems as required by manufacturer.
 - 6. Wear course as required by manufacturer.
 - 7. Topcoat/Sealer: One or two topcoats as required by manufacturer.
- C. Cove Base: Apply cove base mix to wall surfaces at locations shown to form cove base height of 8" unless otherwise indicated. Follow manufacturer's printed instructions and details including taping, mixing, priming, troweling, sanding, and top-coating of cove base.

3.4 TESTING

- A. Test installation for leaks immediately after nominal cure of the completed flooring. Flood each area to a depth of one inch for 24 hours. Repair all leaks and repeat test until no leakage is observable.

3.5 CURING, PROTECTION AND CLEANING

- A. Cure resinous flooring materials according to manufacturer's directions, taking care to prevent contamination during application stages and before completing curing process. Close application area for a minimum of 24 hours.

END OF SECTION 096723