CITY OF EAST PROVIDENCE

SPECIFICATIONS

RFP NO. EP19/20-23

Floor Replacement for Fire Station #3

BID OPENING DATE August 12, 2020 at 11:00 AM

1. The City of East Providence Department of Public Buildings is hereby soliciting bids for the removal of the existing floor at Station #3 and replacing it with an epoxy floor, furnishing, delivery, removal and installation, where called for, of the services, labor, materials, equipment and/or supplies as required. The total floor being replaced is approximately 3,500 square feet, the measurement needs to be verified by the bidder at the pre-bid walk through. The existing flooring to be removed is a combination of carpet and vinyl composite tile flooring. The City reserves the right to accept the bid by items or as a whole, or, in its discretion, reject all bids and re-advertise.

2. A pre-bid walk through is mandatory and will take place at East Providence Fire Station #3 located at 30 North Broadway, Rumford, RI 02916 on **July 28, 2020 at 11:00 AM** and the floor measurements will be verified by the bidder.

3. All work must be done Monday-Friday from 6:00 AM to 6:00 PM. No work shall be done on legal holidays. The Contractor shall pay prevailing wage rates and comply with all of the labor laws of the State. All work must be concluded in fourteen (14) calendar days after it is started. All work to be performed according to the specifications (Section 096723) included in this bid document. All work must be completed and the floor properly cured by October 1, 2020. The Contractor must supply any necessary dumpster(s) and is responsible for site clean-up.

4. Four (4) copies of a technical proposal shall be submitted in one (1) sealed envelope to the Controller's Office, Attn: Procurement Specialist, Room 103, City Hall, 145 Taunton Avenue, East Providence, RI 02914 no later than **Wednesday, August 12, 2020 at 11:00 AM**. The bids will be publicly recorded. Bids received with a time of 11:01 AM or later will be rejected. The envelope needs to be marked **BID EP19/20 – 23.**

5. The successful bidder will be required to provide a certificate of Insurance listing the City of East Providence, RI as Additional Insured. The minimum categories and amounts of insurance required for this project are as follows: Commercial General Liability, Products/Completed Operations, Bodily Injury & Property Damage Liability including explosion, collapse and underground coverage, and personal & advertising injury - $1,000,000 General Aggregate. Auto Liability - $1,000,000 Bodily Injury & Property Damage and Workers Compensation – Statutory amounts. The successful bidder will be required to supply a performance bond in the amount of the awarded bid.

6. The bidder must submit his proposal on the Bid Form accompanying this specification and must itemize his bid according to the list of Items and totals as applicable on separate sheets attached to the Bid before submitting a proposal.

7. It is the intent of the City to award a contract to the lowest qualified bidder. As such, bidders must provide satisfactory information regarding its ability and experience to perform this type of work including a list of completed projects and references within the last (3) years.

SECTION 096723
Fastop SL45 BioFlake Modified System
SELF-LEVELING URETHANE SLURRY SYSTEM

PART 1 - GENERAL

1.1 Summary
- A. This Section includes:
  1. High-performance resinous flooring systems.

1.2 Submittals
- A. Product Data: For each type of product indicated.
- B. Installer Certificates for Qualification: Signed by manufacturer certifying that installers comply with specified requirements.
- C. Material Certificates: For each resinous flooring component, from manufacturer.
- D. Material Test Reports: For each resinous flooring system.
- E. Maintenance Data: For maintenance manuals.
- F. Samples: Submit one sample of coating, indicating coating applied on horizontal surfaces. Sample shall illustrate transition from Resinous Flooring system. Provide sample which is a true representation of proposed field applied finish; not laboratory applied finish.
- G. Optional per owner - Provide minimum 12 feet by 4 feet field sample color and texture for owner approval as a mock up at location designated by General Contractor for review and written approval prior to installation of any other areas.
- H. Product Schedule: For resinous flooring.

1.3 Quality Assurance
- A. Installer Qualifications: Manufacturer's authorized representative who is trained and approved for installation of flooring systems required for this Project.
  1. Engage an installer who is certified in writing by resinous flooring manufacturer as qualified to apply resinous flooring systems indicated.
  2. Installer Letter of Certification: Installer to provide letter stating that they have been in business for at least 10 years and listing 5 projects in the last 2 years of similar scope. For each project provide: project name, location, date of installation, contact information, size of project, and manufacturer of materials with system information.
- B. Source Limitations: Obtain primary resinous flooring materials, including primers, resins, hardening agents, grouting coats, and topcoats, from single source from single manufacturer. Provide secondary materials, including patching and fill material, joint sealant, and repair materials, of type and from source recommended by manufacturer of primary materials.
- C. Pre-installation Conference: Conduct conference at Project site before work and mockups begin.
- D. Mockups: Apply mockups to verify selections made under sample submittals and to demonstrate aesthetic effects and set quality standards for materials and execution. Do not cover up mockup area.
  1. Apply full-thickness mockups on 16 square foot floor area selected by Architect.
  2. Simulate finished lighting conditions for Architect's review of mockups.
  3. Approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.
  4. Mockup shall demonstrate desired slip resistance for review and approval by General Contractor prior to installing project areas.

1.4 Delivery, Storage, And Handling

A. Deliver materials in original packages and containers, with seals unbroken, bearing manufacturer's labels indicating brand name and directions for storage and mixing with other components.
   1. Maintain containers in clean condition, free of foreign materials and residue.
   2. Remove rags and waste from storage areas daily.

1.5 Project Conditions

A. Environmental Limitations: Comply with resinous flooring manufacturer's written instructions for substrate temperature, ambient temperature, moisture, ventilation, and other conditions affecting resinous flooring application.

B. Lighting: Provide permanent lighting or, if permanent lighting is not in place, simulate permanent lighting conditions during resinous flooring application.

C. Close spaces to traffic during resinous flooring application and for not less than 24 hours after application unless manufacturer recommends a longer period.

PART 2 - PRODUCTS

2.1 Manufacturers

A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
   1. The Sherwin-Williams Company
      a. Paul Russo 339-221-8133
      b. Paul.Russo@Sherwin.com

2.2 Materials

A. Basis of Design: Fastop SL45 BioFlake with 4850 topcoats
   1. General Polymers 3477 optional primer,
   2. Fastop SL45 at 3/16” slurry neat,
   3. Flake broadcast (.15 lbs sqft) ¼”
   4. Grout coat 4850
   5. Topcoat GP4850 w optional antiskid GP5190

B. VOC Content of Resinous Flooring:

C. Provide resinous flooring systems, for use inside the weatherproofing system, that comply with the following limits for VOC content when calculated according to 40 CFR 59, Subpart D (EPA Method 24)].
   1. Resinous Flooring: 100 g/L.

2.3 High-Performance Resinous Flooring

A. Resinous Flooring: Abrasion-, impact- and chemical-resistant, high-performance, resin-based, monolithic floor surfacing designed to produce a seamless floor.

B. System Characteristics:
   1. Color and Pattern: As indicated from manufacturers listed above.
   2. Slip Resistance: Provide slip resistant finish.

PART 3 - EXECUTION

3.1 Preparation

A. Inspection: Prior to commencing Work, thoroughly examine all underlying and adjoining work, surfaces and conditions upon which Work is in any way dependent for perfect results. Report all conditions which affect Work. No "waiver of responsibility" for incomplete, inadequate or defective underlaying and adjoining work, surfaces and conditions will be considered, unless notice of such unsatisfactory conditions has been filed and agreed to in writing before Work begins. Commencement of Work constitutes acceptance of surfaces. Test and report for moisture level in substrate to verify compliance with manufacturer’s requirements. Do not proceed unless acceptable test results are achieved.

B. Only installers approved by the manufacturer in writing shall perform installation of the material.

C. Surface Preparation: Remove all surface contamination, loose or weakly adherent particles, laitance, grease, oil, curing compounds, paint, dust and debris by blast track method or approved mechanical means (acid etch not allowed). If surface is questionable try a test patch. Create a minimum surface profile for the system specified in accordance with the methods described in ICRI No. 03732 to achieve profile numbers as follows:
   1. Thin film, to 10 mils — CSP-1 to CSP-3
   2. Thin and medium films, 10 to 40 mils — CSP-3 to CSP-5
   3. Self-leveling mortars, to 3/16” — CSP-4 to CSP-6

4. Mortars and laminates, to 1/4” or more CSP-5 to CSP-9

3.2 Environmental Conditions

A. All applicators and all other personnel in the area of the RF installation shall take all required and necessary safety precautions. All manufacturers’ installation instructions shall be implicitly instructions shall be implicitly followed.
B. Repair damaged and deteriorated concrete according to resinous flooring manufacturer's written instructions.
C. Verify that concrete substrates are dry and moisture-vapor emissions are within acceptable levels according to manufacturer's written instructions by using the following methods as recommended by the resinous flooring manufacturer.
   1. Perform anhydrous calcium chloride test, ASTM F 1869. Proceed with application of resinous flooring only after substrates have maximum moisture-vapor-emission rate of 3 lb of water/1000 sq. ft. or that required in manufacturer’s instructions of slab area in 24 hours.
   2. Perform relative humidity test using in situ probes, ASTM F 2170. Proceed with installation only after substrates have a percent relative humidity level measurement as noted acceptable by resinous floor manufacturer.
D. Alkalinity and Adhesion Testing: Verify that concrete substrates have pH within acceptable range. Perform tests recommended by manufacturer. Proceed with application only after substrates pass testing.
E. Resinous Materials: Mix components and prepare materials according to resinous flooring manufacturer's written instructions.
F. Use patching and fill material to fill holes and depressions in substrates according to manufacturer's written instructions.
G. Treat control joints and other nonmoving substrate cracks to prevent cracks from reflecting through resinous flooring according to manufacturer's written instructions.

3.3 Applications

A. Install resinous floor over properly prepared concrete surface in strict accordance with the manufacturer's directions.
   1. Install the primer and/or base coats over thoroughly cleaned and prepared concrete.
   2. Install topcoat over flooring after excess aggregate has been removed.
   3. Maintain a slab temperature of 60°F to 80°F for 24 hours minimum before applying floor topping.
B. Apply components of resinous flooring system according to manufacturer's written instructions to produce a uniform, monolithic wearing surface of thickness indicated.
   1. Coordinate application of components to provide optimum adhesion of resinous flooring system to substrate, and optimum intercoat adhesion.
   2. Cure resinous flooring components according to manufacturer's written instructions. Prevent contamination during application and curing processes.
   3. At substrate expansion and isolation joints, comply with resinous flooring manufacturer's written instructions.
C. Sealant: Saw cut resinous floor topping at expansion joints in concrete slab. Fill sawcuts with sealant prior to final seal coat application. Follow manufacturer’s written recommendations.
D. Apply primer over prepared substrate at manufacturer's recommended spreading rate.
E. Slip Resistant Finish: Provide grit for slip resistance.
F. Apply topcoats in number indicated for flooring system and at spreading rates recommended in writing by manufacturer.
G. Integral Cove Base: Apply cove base mix and material to wall prior to applying resinous floor Fastop SL45 system. Apply according to Sherwin Williams/General Polymers system bulletin and data page.
   1. Cove base height at 4” unless otherwise notated in the drawings

3.4 Completed Work

A. Cleaning: Upon completion of the Work, clean up and remove from the premises surplus materials, tools, appliances, empty cans, cartons and rubbish resulting from the Work. Clean off all spatterings and drippings, and all resulting stains.
B. Protection: Protect Work in accordance with manufacturer's directions from damage and wear during the remainder of the construction period. Use protective methods and materials, including temporary covering, recommended in writing by resinous flooring manufacturer.
C. Contractor shall insure that coating is protected from any traffic until it is fully cured to the satisfaction of the coating manufacturer.

END OF SECTION
Revised 1/20