



Office of General Services

DESIGN & CONSTRUCTION GROUP
THE GOVERNOR NELSON A. ROCKEFELLER
EMPIRE STATE PLAZA
ALBANY, NY 12242

ADDENDUM NO. 1 TO PROJECT NO. 47638

HVAC WORK
PROVIDE CENTRAL UTILITY PLANT UPGRADES
BUILDING 134
MANHATTAN PSYCHIATRIC CENTER
600 EAST 125 STREET
NEW YORK, NY

September 28, 2026

NOTE: This Addendum forms a part of the Contract Documents. Insert it in the Project Manual. Acknowledge receipt of this Addendum in the space provided on the Bid Form.
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SPECIFICATIONS

1. SECTION 096723 EPOXY RESIN FLOORING: Discard the Section bound in the Project Manual and substitute the accompanying Section (pages 096723 – 1 through 096723 – 6) noted “REVISED 09/28/2026”.

END OF ADDENDUM

Brady M. Sherlock, P.E.
Director, Division of Design
Design & Construction

SECTION 096723

EPOXY RESIN FLOORING

PART 1 - GENERAL

1.01 SUMMARY

- A. Section Includes:
 - 1. Epoxy resinous flooring systems.
- B. References:
 - 1. ASTM International (ASTM):
 - a. ASTM D638 Standard Test Method for Tensile Properties of Plastics.
 - b. ASTM D790 Standard Test Methods for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials.
 - c. ASTM D4060 Standard Test Method for Abrasion Resistance of Organic Coatings by the Taber Abraser.
 - d. ASTM D4541 Standard Test Method for Pull-Off Strength of Coatings Using Portable Adhesion Testers.
 - e. ASTM F3010 Standard Practice for Two-Component Resin Based Membrane-Forming Moisture Mitigation Systems for Use Under Resilient Floor Coverings.

1.02 ADMINISTRATIVE REQUIREMENTS

- A. Coordination: Coordinate work of this Section with work of other trades for proper time and sequence to avoid construction delays.
- B. Pre-installation Meetings: Conduct pre-installation meeting one week prior to commencing work of this Section and on-site installations to verify project requirements, substrate conditions and coordination with other building sub-trades, and to review manufacturer's installation instructions and manufacturer's warranty requirements.

1.03 SUBMITTALS

- A. Product Data: Submit specified products as follows:
 - 1. Manufacturer's product data for primers, underlayments, base coats, seal coats, and broadcast medium.
 - 2. Manufacturer's storage and installation instructions.
- B. Samples for Initial Selection: 3 inch x 3 inch color samples showing the manufacturer's full range of available colors.
- C. Samples: 12 inch x 12 inch samples of each type of resinous floor system including cove base and joint sealant specified to show color and texture with specified coats cascaded.

- D. Test and Evaluation Reports: When requested by the Director's Representative, submit certified test reports showing compliance with specified performance characteristics and physical properties.
- E. Qualification Statements; in accordance with Quality Assurance Article:
 - 1. Submit letter of verification for Manufacturer's Qualifications.
 - 2. Submit letter of verification for Installer's Qualifications.

1.04 QUALITY ASSURANCE

- A. Qualifications:
 - 1. Manufacturer:
 - a. 10 year's experience manufacturing components similar to or exceeding requirements of project.
 - b. Having sufficient capacity to produce and deliver required materials without causing delay in work.
 - c. Capable of providing field service representation during construction.
 - 2. Installer: Acceptable to the manufacturer, experienced in performing work of this section and has specialized in installation of work similar to that required for this project.
 - 3. Volatile Organic Compounds (VOCs) Regulatory Requirements: Chapter III of Title 6 of the official compilation of Codes, Rules and Regulations of the State of New York (Title 6 NYCRR), Part 205.3 Architectural and Industrial Maintenance Coatings.
 - a. Certificate of Compliance: List of each coating product to be delivered and installed. List shall include written certification stating that each paint product listed complies with the VOC regulatory requirements in effect at the time of job site delivery and installation.
 - b. Tints/Colorants shall add no VOC's.

1.05 DELIVERY, STORAGE & HANDLING

- A. Delivery and Acceptance Requirements: Deliver materials in manufacturer's original packaging with identification labels intact and in sizes to suit project.
- B. Storage and Handling Requirements: Store materials protected from exposure to harmful weather conditions and at temperature conditions recommended by manufacturer.

1.06 FIELD CONDITIONS

- A. Ambient Conditions:
 - 1. Installation Location: Assemble and erect components only when temperatures are above 55 degrees F°.
 - 2. Maintain materials, substrates and surrounding air temperature between 70° degrees and 90° degrees prior to, during, and 48 hours after completion of each floor coat.
 - 3. Provide adequate ventilation to the work area.

- B. Surface Conditions:
 - 1. Concrete shall be moisture cured for a minimum of 7 days and have fully cured a minimum of twenty eight days in accordance with ACI-308 prior to the application of the coating system pending moisture tests.
 - 2. Shot-blasting: Shot-blast concrete floor surfaces to be coated to a Concrete Surface Profile (CSP) of 4 to 5.
 - 3. Relative-humidity: Perform RH readings of the concrete per ASTM F2170. Perform three readings for the first 1,000 sq. ft., and one reading for each additional 1,000 sq. ft. Relative humidity of the concrete floor shall be less than 75% prior to installation of coatings.
 - 4. Moisture Emission Rates: Perform anhydrous calcium chloride test ASTM F 1869. Installation of systems without moisture vapor mitigation products will be allowed only when the vapor/moisture emission rates from the slab is less than and not higher than 3 lbs/1,000 sf/24 hrs, and is authorized by the Director's Representative.

PART 2 - PRODUCTS

2.01 GENERAL

- A. Single Source Responsibility: Provide components and materials specified in this section from a single manufacturer.
- B. Ensure components and materials are compatible with specified accessories and adjacent materials.
- C. Regulatory Requirements: VOC content less than 250.
- D. Cove base to be applied where noted on plans and per manufacturers standard details unless otherwise noted.
- E. Contractor to provide products to mitigate vapor/moisture emission rates through concrete slabs. Apply moisture mitigation products to concrete subfloors if vapor/moisture emission rates from the slab is more than 3 lbs/1,000 sf/24 hrs when tested to ASTM F 1869. No additional costs will be due to the Contractor if moisture mitigation products are not included in the floor coating system.

2.02 MANUFACTURERS

- A. Basis of Design Products: Subject to compliance with requirements, provide products manufactured by Elite Crete Systems, Inc., 1061 Transport Drive, Valparaiso, IN 46383, (888) 323-4445, www.elitecrete.com; or comparable products by one of the following:
 - 1. General Polymers, a Sherwin-Williams Company; 101 Prospect Ave, Cleveland, OH 44101, (800) 542-5979; www.generalpolymers.com.
 - 2. Dur-A-Flex, Inc., 95 Goodwin Street, East Hartford, CT 06108, (860) 528-9838, www.dur-a-flex.com.
 - 3. Sika Corporation, 201 Polito Avenue Lyndhurst, NJ 07071, (800) 933-7452, www.usa.sika.com.

2.03 SILICA QUARTZ FLOORING SYSTEM

- A. Materials:
1. Primer; Moisture/vapor mitigation primer meeting ASTM F3010. Basis of Design: E100-VB5 Epoxy Vapor Barrier by Elite Crete Systems, Inc.
 - a. Percent Solids: Minimum 58% per ASTM D3960.
 - b. VOC Content: 0.0% per ASTM D3960.
 - c. Bond Strength: 450 psi minimum per ASTM D4541.
 2. Base Coat: E100-PT4 Pigmented Epoxy by Elite Crete Systems, Inc.
 - a. Percent Solids: Minimum 100% per ASTM D3960.
 - b. VOC Content: 0.0% per ASTM D3960.
 - c. Compressive Strength: 9,500 psi minimum per ASTM D645.
 - d. Tensile Strength: 7,500 psi minimum per ASTM D638.
 - e. Flexural Strength: 4,500 psi minimum per ASTM D790.
 - f. Shore D Hardness: 83 minimum after 7 days per ASTM D2240.
 - g. Color: As selected by Director's Representative from manufacturer's full range.
 3. Silica Quartz: Elite Crete Systems brand by Elite Crete Systems, Inc.
 - a. Color: As selected by Director's Representative from manufacturer's full range.
 4. Clear Topcoat: E100-PT1 Clear Epoxy.
 - a. Percent Solids: Minimum 100% per ASTM D3960.
 - b. VOC Content: 0.0% per ASTM D3960.
 - c. Compressive Strength: 12,000 psi minimum per ASTM D645.
 - d. Tensile Strength: 7,100 psi minimum per ASTM D638.
 - e. Abrasion Resistance: 30 mg loss maximum, CS-Wheel, 1 kg load at 1000 cycles.
 - f. Flexural Strength: 11,100 psi minimum per ASTM D790.
 - g. Shore D Hardness: 89 minimum after 7 days per ASTM D2240.
- B. Mixes: Mix components in accordance with manufacturer's written instructions.
- C. Overall System Thickness: 3/32-inch (0.094-inch) nominal.

2.04 COVE BASE

- A. Materials:
1. Moisture/vapor mitigation primer meeting ASTM F3010. Basis of Design: E100-VB5 Epoxy Vapor Barrier by Elite Crete Systems, Inc.
 - a. Percent Solids: Minimum 58% per ASTM D3960.
 - b. VOC Content: 0.0% per ASTM D3960.
 - c. Bond Strength: 450 psi minimum per ASTM D4541.
 2. Base Coat: E100-PT1 Pigmented Epoxy by Elite Crete Systems, Inc.
 - a. Percent Solids: Minimum 100% per ASTM D3960.
 - b. VOC Content: 0.0% per ASTM D3960.
 - c. Compressive Strength: 9,500 psi minimum per ASTM D645.
 - d. Tensile Strength: 7,500 psi minimum per ASTM D638.
 - e. Flexural Strength: 4,500 psi minimum per ASTM D790.
 - f. Shore D Hardness: 83 minimum after 7 days per ASTM D2240.
 - g. Color: As selected by the Director's Representative from the manufacturer's full range.

3. Cove Base Mix: E100-PT4 Pigmented Epoxy by Elite Crete Systems, Inc.
 - a. Percent Solids: Minimum 100% per ASTM D3960.
 - b. VOC Content: 0.0% per ASTM D3960.
 - c. Compressive Strength: 12,000 psi minimum per ASTM D645.
 - d. Tensile Strength: 7,100 psi minimum per ASTM D638.
 - e. Abrasion Resistance: 30 mg loss maximum, CS-Wheel, 1 kg load at 1000 cycles per ASTM D4060.
 - f. Flexural Strength: 11,100 psi minimum per ASTM D790.
 - g. Shore D Hardness: 89 minimum after 7 days per ASTM D2240.
- B. Mixes: Mix components in accordance with manufacturer's written instructions.
- C. Height: 4-inches

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Verification of Conditions: Verify that conditions of substrates previously installed under other sections or contracts are acceptable for product installation in accordance with manufacturer's instructions prior to fluid-applied flooring installation.
- B. Inform Director's Representative of unacceptable conditions immediately upon discovery.
- C. Proceed with installation only after unacceptable conditions have been remedied and after receipt of written approval from the Director's Representative.

3.02 PREPARATION

- A. General:
 1. New and existing concrete surfaces shall be free of oil, grease, curing compounds, loose particles, moss, algae growth, laitance, friable matter, dirt, and bituminous products.
 2. There shall be no visible moisture present on the surface at the time of application of the system. Compressed oil-free air and/or a light passing of a propane torch may be used to dry the substrate.
- B. Surface Preparation: Prepare surface in accordance with manufacturer's written recommendations and the following:
 1. Shot-blast concrete floors in accordance with this Section.
 2. Floor areas inaccessible to the mobile blast machines shall be mechanically abraded to the same degree of cleanliness, soundness and profile using diamond grinders, needle guns, bush hammers, or other suitable equipment.
 3. Cracks and joints (non-moving) greater than 1/8 inch wide are to be chiseled or chipped-out and repaired per manufacturer's recommendations.
 4. At spalled or worn areas, mechanically remove loose or delaminated concrete to a sound concrete and patch per manufacturers recommendations.

5. Where the perimeter of the substrate to be coated is not adjacent to a wall or curb, a minimum 1/4 inch key cut shall be made to properly seat the system, providing a smooth transition between areas.
6. Immediately prior to the application of any component of the system, the surface shall be dry and any remaining dust or loose particles shall be removed using a vacuum or clean, dry, oil-free compressed air.

3.03 APPLICATION

- A. Apply components in accordance with manufacturer's written recommendations and the following:
 1. A neat finish with well-defined boundaries and straight edges shall be provided by the Applicator.
 2. Base coat: Allow material to fully cure. Vacuum, sweep and/or blow to remove all loose aggregate after each application and prior to installing topcoat.
 3. Provide integral epoxy cove base on walls and equipment curbs. Install per manufacturer's details and instructions with a minimum 1/2-inch radius cove.
 4. Seal all edges of epoxy flooring at all terminations that are not against a wall surface, including at transitions to other floor materials and underneath thresholds.

3.04 CLEANING AND PROTECTION

- A. Cure flooring material in compliance with manufacturer's directions, taking care to prevent their contamination during stages of application and prior to completion of the curing process.
- B. Upon completion, remove surplus materials, rubbish, tools and equipment.
- C. Remove masking. Perform detail cleaning at floor termination, to leave cleanable surface for subsequent work of other sections.

END OF SECTION