

SECTION 09 97 00
SPECIAL COATINGS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Requirements for all materials, labor, equipment, and services necessary to complete all special coating applications in existing or new installations in which concrete block will be the finished wall surface in high traffic areas of the building and a "tile like" finish is desired.

1.02 REFERENCE STANDARDS

- A. References and industry standards listed in this Section are applicable to the Work. Unless more restrictive criteria or differing requirements are explicitly stated in the Specifications, or mandated by governing codes or regulations, the recommendations, suggestions, and requirements described in the referenced standards shall be deemed mandatory and applicable to the Work.
- B. ASTM E119 - Standard Test Methods for Fire Tests of Building Construction and Materials; 2015.
- C. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2015a.

1.03 SUBMITTALS

- A. Product Data
 - 1. Provide manufacturers' product literature for all materials specified. In addition to actual material data, submit manufacturer's printed directions and recommendations for environmental conditions, surface preparation, priming, mixing, reduction, spreading rate, application and storage, as applicable for each of the materials specified.
- B. Samples
 - 1. Submit color chips that demonstrate the complete range of manufacturer's standard colors for surfaces to be coated to the Project Architect.
 - 2. Provide samples of each color and material to be applied, with texture to simulate actual conditions, on representative samples of the actual substrate.
 - a. Concrete Block: Submit two 8" square samples for approval of coating application to concrete block substrate. Apply coating in a stepback procedure so as to leave exposed a portion of the concrete block and subsequent portions of each coat.
- C. Sample Wall/Field Samples
- D. Provide certification that the work will be performed by personnel with a minimum of three years experience.
- E. Manufacturer's certification from an independent testing laboratory acceptable to authorities having jurisdiction that coating systems comply with fire test performance criteria outlined below.
- F. Provide certification that products have been obtained from a single manufacturer.
- G. Extra Materials
- H. Low Emitting Materials Compliance Submittals:
 - 1. Provide documentation for each coating to be used on the building interior indicating that the coatings comply with low V.O.C. requirements as stated in Specification Section G01600.

1.04 QUALITY ASSURANCE

- A. Qualifications
 - 1. Work of this Section shall be performed by personnel with a minimum of three years experience.
- B. Fire Test Performance

1. Provide coating system meeting requirements of a Class A Interior Finish as demonstrated by meeting the following fire test performance criteria:
Flame Spread: Not more than 25 per ASTM E 84
Smoke Density: Not more than 25 per ASTM E 84
Fuel Contributed: Not more than 25 per ASTM E 84
- C. Single Source Responsibility
 1. Provide product of a single manufacturer to ensure compatibility of layers.
- D. Sample Wall/Field Samples
 1. Apply coating to an entire wall area for inspection and approval by Project Architect.
 2. Upon acceptance and approval by Project Architect the sample coated wall area shall become the "Standard of Quality" for all applications of coating for this project.
 3. Contractor shall be responsible for maintaining the approved quality throughout the entire application.

1.05 DELIVERY, STORAGE, AND HANDLING

- A. Delivery
 1. Deliver materials to the site in original, unopened containers bearing label containing the following information:
 2. Product name or title of material
 3. Manufacturer's stock number and date of manufacture
 4. Manufacturer's name
 5. Contents by volume for major pigment and vehicle constituents
 6. Thinning instructions
 7. Application instructions
 8. Color name and number.
- B. Storage
 1. Authority will designate space on premises for storage of materials.
 2. When other painting materials are to be used, coating systems will be stored in areas designated for storage of paint and will adhere to all requirements for storage outlined in Section 09900, of this Specification.

1.06 FIELD CONDITIONS

- A. Environmental Requirements
 1. Comply with manufacturer's recommendations as to environmental conditions under which coatings and coating systems can be applied.
- B. Protection
 1. Protect floors with drop cloths or building paper.
 2. Remove oily rags, waste, empty containers from site each night.
 3. Keep containers tightly closed.
 4. Post caution signs warning against smoking and open flame when working with flammable materials.
- C. Ventilation
 1. Provide ventilation in area to receive coating introducing fresh air and exhausting air continuously during and 24 hours after application to maintain non-toxic, unpolluted, safe working area.

1.07 MAINTENANCE

- A. Extra Materials
 1. At completion of Work, furnish to the Authority's Representative two (2) gallons of each type and color of coating system used in the Work (to be transferred to the custodian). Furnish materials in manufacturer's original sealed containers marked with color name and or numbers specified herein.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Subject to compliance with requirements, provide products of one of the following manufacturers:
 - 1. Benjamin Moore.
 - 2. Con Lux Coatings, Inc.
 - 3. Glidden Paints.
 - 4. PPG Industries, Inc.
 - 5. Sanitile.
- B. Provide products which meet all N.Y.S. Part 205 - VOC requirements for Architectural Surface Coatings for applications intended and which comply with all other applicable environmental regulations requirements and local authorities and comply with low V.O.C. requirements as stated in Specification Section G01600.

2.02 MATERIALS

- A. Two (2) coat application
 - 1. Block filler
 - a. Benjamin Moore Moorecraft Interior and Exterior Block Filler (173).
 - b. Con Lux Epolon 65 block filler.
 - c. Glid-Tile No. 5512 Epoxide block filler, an epoxy ester, moisture-resistant block filler containing minimum of 65% solids by volume.
 - d. Pitt-Glaze high solid block filler (16-9).
 - e. Sanitile's Polyester base coat.
 - 2. Finish Coat
 - a. Benjamin Moore Ironclad Tile-Like Epoxy High Gloss Enamel Base (371) and Hardener (378) topcoated with Clear Glaze Gloss (370 01) or Semi-Gloss (370 02).
 - b. Con Lux Epolon Multi-Mil Series Gloss.
 - c. Glid-Tile No. 5596/5597 Epoxide Gloss or Glid-Tile No. 5598/5597 Epoxide Semi-Gloss containing minimum of 60% solids by volume (mixed: Epoxide Enamel and Converter).
 - d. Pitt-Glaze High Solids Polyester-Epoxy Coating; or
 - e. Sanitile's Polyurethane finish coat.
 - 3. Colors: As selected by Project Architect from manufacturer's standard colors.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Areas to be coated must be kept free of traffic and no other trade shall work in the area during application procedure.
- B. Contractor shall provide sufficient electric power, light, heat to permit proper application of this coating.
- C. Installation of resilient flooring, carpeting and acoustic tiles shall be completed after the coating has been applied.
- D. Painting in adjoining areas such as door bucks, doors, etc., shall not be started prior to application of coating.

3.02 PREPARATION OF SURFACES

- A. All surfaces shall be clean-free of dirt, grease and foreign matter that would adversely affect the adhesion, finish appearance or protective properties of special coating.
- B. If for any reason the surfaces cannot be properly prepared, the condition shall be reported to the Contractor, who will be responsible for rectifying the unsatisfactory condition.
- C. Remove all burrs, nibs and mortar spatter and loose masonry by dressing with carborundum tool or block fragment.

D. Comply with manufacturer's recommendations for preparation of surfaces.

3.03 APPLICATION

A. Block Filler

1. Benjamin Moore Moorecraft Interior & Exterior Block Filler applied at a rate not to exceed 75-150 sq. ft. per gallon, according to given surface texture. 8.6 mil dry at 75 sq.ft. per gallon or 4.3 mil dry at 150 sq. ft. per gallon.
2. Con Lux Epolon 65 Block Filler applied at a rate not to exceed 60-115 square feet per gallon, or 10-20 mil dry film thickness. Filler to be applied by spray, brush or roller.
3. Glid-Tile No. 5512, Epoxide Block Filler applied at a rate not to exceed 70 square feet per gallon, applied to completely fill all pinholes and voids; yield 10 to 12 mils average dry film thickness.
4. Pitt-Glaze block filler applied to give approximately 16 mils dry film. Sand filler lightly after dry to remove all nibs. Filler to be applied by roller or spray followed by rolling.
5. Sanitile applied at rate of 65-75 sq. ft. per gallon.

B. Finish Coat

1. Benjamin Moore Tile-Like Enamel Base (371) and Hardener (378) topcoated with Clear Glaze Gloss (370 01) and Hardener (378) or Clear Glaze Semi Gloss (370 02) and Hardener (378) applied at a rate of 4.3 mil dry film thickness for enamel, base and hardener coat. Apply by roller for best results.
2. Con Lux Epolon Multi Mil Series, Epoxy Polyamide applied at a rate of 4-6 mil dry film thickness by spray. Brush or roller may be used.
3. Glid-Tile No. 5596/5597 Gloss or 5598/5597 Semi-Gloss, Epoxide Enamel applied at a rate of 6.5 to 7.5 mils dry film thickness by roller.
4. Pitt-Glaze high solid polyester-epoxy top coat applied at approximately 6 mil dry film thickness.
5. Sanitile applied in accordance with manufacturers recommendations.

C. Provide two (2) finish coats on first two rows of blocks above floor in corridors and stairs.

D. End Result

1. A smooth, Tile-Like, hard surface, free of sags, runs, craters, pinholes, or other defects matching the approved Field Sample described in 1.04.E. of this Section.

3.04 ADJUSTING AND CLEANING

A. Remove and replace all surfaces that have been damaged or improperly applied.

B. Completely remove from areas of Work all waste materials, rubbish, scaffolding and debris as a result of Work performed under this Section.

C. All areas in which Work was performed under this Section shall be left "broom-clean".

END OF SECTION