

SECTION 09960

HIGH-PERFORMANCE COATINGS

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Preparation of substrate surfaces.
- B. Application of special coatings.

1.2 RELATED SECTIONS

- A. Section _____ - _____: Wall surfaces scheduled for special coatings.
- B. Section _____ - _____: Floor surfaces scheduled for special coatings.
- C. Section 09901 - Exterior Paints and Stains.
- D. Section 09902 - Interior Paints and Stains.

1.3 SUBMITTALS

- A. Submit under provisions of Section 01300.
- B. Product Data: Provide manufacturer's printed product data on all coatings specified, including preparation and application instructions.
- C. Selection Samples: Provide two sets of samples not less than one inch by two inches in size illustrating range of colors and textures available for each finishing product specified.
- D. Verification Samples: Provide two samples of not less than six inches square illustrating selected colors and textures for each color specified.

1.4 DELIVERY, STORAGE, AND HANDLING

- A. Deliver, store, and protect products under provisions of Section 01600.

- B. Deliver products to site in sealed and labeled containers. Labels shall include manufacturer's name, type of coating, brand name, lot number, estimated coverage, surface preparation requirements, drying time, cleanup instructions, color designation, and instructions for mixing.
- C. Store special coatings in covered, ventilated area at minimum ambient temperature of 45 degrees F and maximum ambient temperature of 90 degrees F.

1.5 MOCK-UP

- A. Provide mock-up of special coatings under provision of Section 01400.
- B. Provide one mockup of each system specified, not less than 8 feet long by 8 feet high, accurately illustrating coating thickness, color, and surface sheen.
- C. Locate mock-up where indicated on the drawings.
- D. Locate mock-up where directed by the Architect.
- E. Mock-up may remain as part of the finished Work.

1.6 ENVIRONMENTAL REQUIREMENTS

- A. Do not apply products of this section when temperature is below 55 degrees F or above 90 degrees F. Do not apply coatings when humidity is in excess of manufacturer's recommended limit.
- B. Maintain specified temperature range not less than 24 hours before beginning application and not less than 72 hours after completing application.
- C. Restrict traffic in areas where special coatings are being applied and while they are curing.

1.7 EXTRA MATERIALS

- A. Furnish extra materials under provisions of Section 01700.
- B. Deliver to Owner 2 gallons of each special coating in each color required for Project.

1. Mark each container with color and room names or numbers where coating was used, without obscuring manufacturer's label.

PART 2 PRODUCTS

2.1 MANUFACTURER

- A. Provide products listed in Schedule at end of the section, manufactured by ICI Dulux Paints, headquartered at 925 Euclid Avenue, Cleveland OH 44115. ASD. Call (800) 984-5444 for location of company-owned stores.
- B. Substitutions: Not permitted.

2.2 MATERIALS

- A. Coatings: 2 component type polyamide epoxies requiring field mixing.
 1. Colors: Provide colors selected by Architect from manufacturer's standard color range.
 2. Colors: Provide colors as scheduled.
 3. Colors: _____.
- B. Accessories: Provide other materials required for proper installation as recommended by manufacturer of special coatings products.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify that site environmental conditions are appropriate and substrates are in proper condition to receive work of this section.
- B. Measure moisture content of surfaces using an electronic moisture meter. Do not begin application of coatings unless moisture content of surfaces is below the following maximum values:
 1. Gypsum wallboard: 12 percent.
 2. Plaster: 12 percent.
 3. Masonry surfaces: 12 percent.
 4. Wood surfaces: 15 percent.

5. Concrete surfaces: 16 percent.

3.2 PREPARATION

- A. Remove or mask electrical plates, hardware, light fixture trim, and similar fittings prior to beginning painting operations.
- B. Correct defects and clean surfaces affecting work of this section. Remove existing coatings that are flaking or otherwise in unacceptable condition to receive paint.
- C. Remove mildew from impervious surfaces by scrubbing with solution of trisodium phosphate and bleach. Rinse with clean water and allow substrate to dry.
- D. Masonry Surfaces: Remove dirt, loose mortar, scale, salts, alkalies, and other detrimental substances. Remove oils and grease with solution of trisodium phosphate; rinse well and allow to dry.
 - 1. Verify masonry joints are struck flush.
- E. Concrete: Remove dirt and grease, acid etch, and rinse with clear water.
- F. Plaster and Drywall: Fill hairline cracks, small holes, and imperfections with patching compound, then smooth patches to match adjacent surfaces.
- G. Wood: Remove dirt and foreign matter. Patch knots, pitch pockets, and other surface imperfections with patching compound and seal with sealer recommended by special coatings manufacturer.
- H. Galvanized Metal Surfaces: Remove oils and wash with solvent.

3.3 APPLICATION

- A. Apply special coatings in accordance with manufacturer's printed instructions. Do not apply coatings to surfaces that are not dry.
- B. Apply each coat to uniform thickness and finish, with each coat slightly darker than preceding coat. Allow each coat to dry thoroughly before applying next coat.

3.4 CLEANING AND PROTECTION

- A. Keep project premises free of debris related to special coatings. Collect material that may constitute a fire hazard, place in closed metal containers, and remove daily from site.
- B. Protect work adjacent to special coatings operations from spatters and spills. Immediately remove special coating that falls on finished surfaces not scheduled to receive it, using materials and techniques that will not damage affected surfaces.

3.5 SCHEDULE

- A. Wood - High Gloss Finish:
 - 1. Two Component Waterborne Polyamide Epoxy:
 - a. 1 coat 4408 XXXX Tru-Glaze-WB Waterborne Epoxy Gloss Coating - reduced 10 percent.
 - b. 2 coats 4408 XXXX Tru-Glaze-WB Waterborne Epoxy Gloss Coating.
 - 2. Two Component Polyamide Epoxy:
 - a. 3 coats 4508 XXXX Tru-Glaze Chemical Resistant Epoxy Coating.
- B. Wood - Semigloss Finish:
 - 1. Two Component Waterborne Polyamide Epoxy:
 - a. 1 coat 4406 XXXX Tru-Glaze-WB Waterborne Epoxy Semigloss Coating - reduced 10 percent.
 - b. 2 coats 4406 XXXX Tru-Glaze-WB Waterborne Epoxy Semigloss Coating.
 - 2. Two Component Polyamide Epoxy:
 - a. 3 coats 4508 XXXX Tru-Glaze Chemical Resistant Epoxy Coating (Using Semigloss Converter).
- C. Plaster - High Gloss Finish:
 - 1. Two Component Waterborne Polyamide Epoxy:
 - a. 1 coat 4408 XXXX Tru-Glaze-WB Waterborne Epoxy Gloss Coating - reduced 20 percent.
 - b. 2 coats 4408 XXXX Tru-Glaze-WB Waterborne Epoxy Gloss Coating.
 - 2. Two Component Polyamide Epoxy:
 - a. 3 coats 4508 XXXX Tru-Glaze Chemical Resistant Epoxy Coating.
- D. Plaster - Semigloss Finish:
 - 1. Two Component Waterborne Polyamide Epoxy:

- a. 1 coat 4406 XXXX Tru-Glaze-WB Waterborne Epoxy Semigloss Coating - reduced 20 percent.
 - b. 2 coats 4406 XXXX Tru-Glaze-WB Waterborne Epoxy Semigloss Coating.
 - 2. Two Component Polyamide Epoxy:
 - a. 3 coats 4508 XXXX Tru-Glaze Chemical Resistant Epoxy Coating (Using Semigloss Converter).

- E. Drywall - High Gloss Finish:
 - 1. Two Component Waterborne Polyamide Epoxy:
 - a. 1 coat 3210 The Gripper Aquacrylic Primer Sealer.
 - b. 2 coats 4408 XXXX Tru-Glaze-WB Waterborne Epoxy Gloss Coating.
 - 2. Two Component Polyamide Epoxy:
 - a. 1 coat 3210 The Gripper Aquacrylic Primer Sealer.
 - b. 2 coats 4508 XXXX Tru-Glaze Chemical Resistant Epoxy Coating.

- F. Drywall - Semigloss Finish:
 - 1. Two Component Waterborne Polyamide Epoxy:
 - a. 1 coat 3210 The Gripper Aquacrylic Primer Sealer.
 - b. 2 coats 4406 XXXX Tru-Glaze-WB Waterborne Epoxy Semigloss Coating.
 - 2. Two Component Polyamide Epoxy:
 - a. 1 coat 3210 The Gripper Aquacrylic Primer Sealer.
 - b. 2 coats 4508 XXXX Tru-Glaze Chemical Resistant Epoxy Coating (Using Semigloss Converter).

- G. Metal Substrates, Including Machinery, Equipment and Fixtures - High Gloss Finish:
 - 1. Two Component Waterborne Polyamide Epoxy:
 - a. 1 coat 4030 XXXX Tru-Glaze-WB Waterborne Epoxy Primer.
 - b. 2 coats 4408 XXXX Tru-Glaze-WB Waterborne Epoxy Gloss Coating.
 - 2. Two Component Polyamide Epoxy:
 - a. 1 coat 4170 XXXX Devran Corrosion Resistant Epoxy Primer.
 - b. 2 coats 4508 XXXX Tru-Glaze Chemical Resistant Epoxy Coating.

- H. Metal Substrates, Including Machinery, Equipment and Fixtures - Semigloss Finish:
 - 1. Two Component Waterborne Polyamide Epoxy:
 - a. 1 coat 4030 XXXX Tru-Glaze-WB Waterborne Epoxy Primer.

- b. 2 coats 4406 XXXX Tru-Glaze-WB Waterborne Epoxy Semigloss Coating.
 - 2. Two Component Polyamide Epoxy:
 - a. 1 coat 4170 XXXX Devran Corrosion Resistant Epoxy Primer.
 - b. 2 coats 4508 XXXX Tru-Glaze Chemical Resistant Epoxy Coating (Using Semigloss Converter).
- I. Concrete Block and Pumice Block - High Gloss Finish:
 - 1. Two Component Waterborne Polyamide Epoxy:
 - a. 1 coat 4000 Bloxfil Interior/Exterior Heavy Duty Acrylic Block Filler.
 - b. 2 coats 4408 XXXX Tru-Glaze-WB Waterborne Epoxy Gloss Coating.
 - 2. Two Component Polyamide Epoxy:
 - a. 1 coat 4000 Bloxfil Interior/Exterior Heavy Duty Acrylic Block Filler.
 - b. 2 coats 4508 XXXX Tru-Glaze Chemical Resistant Epoxy Coating.
- J. Concrete Block and Pumice Block - Semigloss Finish:
 - 1. Two Component Waterborne Polyamide Epoxy:
 - a. 1 coat 4000 Bloxfil Interior/Exterior Heavy Duty Acrylic Block Filler.
 - b. 2 coats 4406 XXXX Tru-Glaze-WB Waterborne Epoxy Semigloss Coating.
 - 2. Two Component Polyamide Epoxy:
 - a. 1 coat 4000 Bloxfil Interior/Exterior Heavy Duty Acrylic Block Filler.
 - b. 2 coats 4508 XXXX Tru-Glaze Chemical Resistant Epoxy Coating (Using Semigloss Converter).
- K. Concrete Substrates - High Gloss Finish:
 - 1. Two Component Waterborne Polyamide Epoxy:
 - a. 1 coat 4408 XXXX Tru-Glaze-WB Waterborne Epoxy Gloss Coating - reduced 20 percent.
 - b. 2 coats 4408 XXXX Tru-Glaze-WB Waterborne Epoxy Gloss Coating.
- L. Concrete Substrates - Semigloss Finish:
 - 1. Two Component Waterborne Polyamide Epoxy:
 - a. 1 coat 4406 XXXX Tru-Glaze-WB Waterborne Epoxy Semigloss Coating - reduced 20 percent.
 - b. 2 coats 4406 XXXX Tru-Glaze-WB Waterborne Epoxy Semigloss Coating.
 - 2. Two Component Polyamide Epoxy:

- a. 3 coats 4508 XXXX Tru-Glaze Chemical Resistant Epoxy Coating (Using Semigloss Converter).

END OF SECTION