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Product Guide Specification

Specifier Notes: This product guide specification is written according to the Construction Specifications Institute (CSI) 3-Part Format, including *MasterFormat*, *SectionFormat*, and *PageFormat*, contained in the *CSI Manual of Practice*.

The section must be carefully reviewed and edited by the Architect to meet the requirements of the project and local building code. Coordinate this section with other specification sections and the Drawings. Delete all "Specifier Notes" when editing this section.

Section numbers are from *MasterFormat 1995 Edition*, with numbers from *MasterFormat 2004 Edition* in parentheses. Delete version not required.

SECTION 09985 (09 97 23)

DECORATIVE CONCRETE COATING

Specifier Notes: This section covers Rudd Company "SkimStone®", a two-component, trowel-applied, cementitious, decorative coating for existing concrete floors. Consult Rudd Company for assistance in editing this section for the specific application.

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Cementitious decorative coating for existing concrete floors.

1.2 RELATED SECTIONS

Specifier Notes: Edit the following list of related sections as required for the project. List other sections with work directly related to this section.

- A. Section 03300 (03 30 00) - Cast-in-Place Concrete.

1.3 SUBMITTALS

- A. Comply with Section 01330 (01 33 00) - Submittal Procedures.

- B. Product Data: Submit manufacturer's product data, including surface preparation and application instructions.
- C. Color Samples: Submit manufacturer's standard color chart.

Specifier Notes: Delete the applicator's project references submittal if not required.

- D. Applicator's Project References: Submit list of successfully completed projects, including project name and location, name of architect, and type and quantity of decorative concrete coatings applied.
- E. Maintenance: Submit manufacturer's maintenance instructions.

1.4 QUALITY ASSURANCE

Specifier Notes: Delete applicator's qualifications if not required.

- A. Applicator's Qualifications:
 - 1. Successful experience in application of similar decorative concrete coatings.
 - 2. Employ persons trained for application of decorative concrete coatings.

Specifier Notes: Delete pre-application meeting if not required.

- B. Pre-application Meeting: Convene a pre-application meeting before start of application of decorative concrete coating. Require attendance of parties directly affecting work of this section, including Contractor, Architect, and applicator. Review surface preparation, tinting, mixing, application, cleaning, protection, and coordination with other work.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Delivery: Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.
- B. Storage: Store materials in clean, dry area indoors in accordance with manufacturer's instructions. Keep containers sealed until ready for use.
- C. Handling: Protect materials during handling and application to prevent damage or contamination.

1.6 ENVIRONMENTAL REQUIREMENTS

- A. Apply decorative concrete coating and sealer when air temperature is above 50 degrees F.
- B. Exterior Applications: Do not apply decorative concrete coating if there has been rain 48 hours before start of application, if rain is predicted within 48 hours after completion of system application, or if relative humidity is above 80 percent.

PART 2 PRODUCTS

2.1 MANUFACTURER

- A. Rudd Company, Inc., 1141 NW 50th Street, Seattle, Washington 98107. Toll Free (800) 444-7833. Phone (206) 789-1000. Fax (206) 789-1001. Website www.skimstone.com.

2.2 DECORATIVE CONCRETE COATING

- A. Coating: "SkimStone".
 - 1. Description: 2-component, trowel-applied, cementitious, decorative coating for existing concrete floors.
 - 2. Solution: "SkimStone Type I Solution". Acrylic-emulsion blend to be tinted.
 - 3. Colorants: "SkimStone ColorPaks". Lead-free, industrial-grade, acrylic colorants to be added to solution.
 - 4. Powder: "SkimStone White Powder". Proprietary blend with portland cement.
- B. Sealer: "SkimStone Protective Sealer". 100 percent urethane waterborne sealer.
- C. Cleaner: "SkimStone Cleaner".

Specifier Notes: Specify the color and color strength for each of the three coats. The color and texture of the concrete, the application method, and the use of the sealer will affect the final color of the decorative concrete coating.

Each of the three coats may use the same or different colors and the same or different color strengths. The color strength will be determined by the amount of the SkimStone ColorPaks added to each gallon of SkimStone Type I Solution. Refer to the SkimStone color chart.

- D. Color and Color Strength:
 - 1. First Coat:
 - a. Color: [Deep Slate] [Eggplant] [Florentine Clay] [Forest Fern] [Minoan Red] [Mocha] [Oystershell] [Rainy Day Blue] [Winter Olive] [Yellowstone].
 - b. Amount of Colorant per Gallon of Solution: [8 ounces] [4 ounces] [2 ounces] [1 ounce] [1/2 ounce].
 - 2. Second Coat:
 - a. Color: [Deep Slate] [Eggplant] [Florentine Clay] [Forest Fern] [Minoan Red] [Mocha] [Oystershell] [Rainy Day Blue] [Winter Olive] [Yellowstone].
 - b. Amount of Colorant per Gallon of Solution: [8 ounces] [4 ounces] [2 ounces] [1 ounce] [1/2 ounce].
 - 3. Third Coat:
 - a. Color: [Deep Slate] [Eggplant] [Florentine Clay] [Forest Fern] [Minoan Red] [Mocha] [Oystershell] [Rainy Day Blue] [Winter Olive] [Yellowstone].
 - b. Amount of Colorant per Gallon of Solution: [8 ounces] [4 ounces] [2 ounces] [1 ounce] [1/2 ounce].

PART 3 EXECUTION

3.1 EXAMINATION

- A. Examine surfaces to receive decorative concrete coating. Notify Architect if surfaces are not acceptable. Do not begin surface preparation or application until unacceptable conditions have been corrected.

3.2 SURFACE PREPARATION

- A. Protect surrounding surfaces and baseboards against contact with decorative concrete coating.
- B. Prepare concrete surfaces in accordance with manufacturer's instructions.
- C. Remove dirt, dust, debris, oil, grease, glues, loose material, and other surface contaminants.
- D. Return to bare concrete previously sealed or painted surfaces by mechanical grinding or shot blasting.
- E. Ensure decorative concrete coating adhesion on smooth or slick concrete by creating surface texture by mechanical abrasion.
- F. Ensure concrete is a minimum of 30 days old.
- G. Repair surface defects in accordance with manufacturer's instructions.
- H. Test concrete surface in accordance with manufacturer's instructions after cleaning to ensure concrete is clean, dry, and will accept decorative concrete coating.
- I. Do not apply decorative concrete coating over silicone-based stains or sealers, even after removal.
- J. Do not apply decorative concrete coating over floors where previous coatings have been removed by acid etching.

3.3 TINTING AND MIXING

- A. Tint materials in accordance with manufacturer's instructions to produce desired colors.
- B. Mix materials in accordance with manufacturer's instructions.
- C. Ensure mixture is smooth, lump-free, and uniformly colored.
- D. Ensure mixture consistency is in accordance with manufacturer's instructions for surface texture of substrate.
- E. Do not thin mixture with water.

3.4 APPLICATION

- A. Apply decorative concrete coating in accordance with manufacturer's instructions at locations indicated on the Drawings.
- B. Apply 3-coat application.
- C. Allow proper drying time between each coat.
- D. Allow a minimum of 8 hours after final coat of decorative concrete coating before applying sealer.
- E. Apply sealer in accordance with manufacturer's instructions.

- F. Ensure surface to receive sealer is clean and dry.

Specifier Notes: Specify the number of coats of sealer. Apply 4 to 5 coats of sealer on interior surfaces for maximum sheen and protection. Apply 1 or 2 thin coats of sealer on exterior surfaces to allow the concrete to breathe. Consult Rudd Company for more information.

- G. Apply _____ coats of sealer.

3.5 CLEANING

- A. Clean sealed surfaces with cleaner as needed in accordance with manufacturer's instructions.

3.6 PROTECTION

- A. Allow a minimum of 24 hours for sealer to dry before permitting light foot traffic.

Specifier Notes: Maximum hardness of the sealer will be achieved in 7 to 10 days after application. Use floors with care during this period.

- B. Allow a minimum of 10 days for sealer to dry before allowing contact with water, covering with rugs, or sliding furniture across surface.

END OF SECTION