

SECTION 09 61 19 - Concrete Floor Staining
SURECRETE INTERIOR STAINED CONCRETE FLOORING

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. Specifications for applying interior stained and sealed concrete flooring.
 - a. Concrete Floor Stain
 - b. Polyurethane Concrete Floor Protectant Coating
 - c. Concrete Floor Wax

1.2 RELATED SECTIONS

- A. Section 03 30 00 - Cast-in-Place Concrete
- B. Section 03 35 00 - Concrete Finishing

1.3 SUBMITTALS

Edit to suit Project Requirements

- A. SCR [Concrete Surface Cleaner Profiler]
- B. Eco Stain [Water Based Translucent Concrete Stain]
- C. DK 400WB [Water Based Polyurethane Clear Coat]
- D. SureFinish [Sacrificial Commercial Grade Floor Wax]

1.4 QUALITY ASSURANCE

- A. Submit product data and manufacturer instructions under provisions of Section 01 30 00.
- B. The Manufacturer shall have a minimum of 10 years' experience in the production, sales, and technical support of interior stained concrete products.
- C. The Applicator shall have a minimum of 3 years' experience in installation of the stamped concrete paving as confirmed by the manufacturer in all phases of concrete placement and application of the products specified.
- D. System shall be in compliance with requirements of ACI 301.
- E. Materials shall be obtained from the same source.
- F. Mock-Up: Provide a field sample for evaluation of surface preparation techniques and application craftsmanship.
 - 1. Mock-Up areas designated by Architect.
 - 2. Do not proceed with remaining work until craftsmanship, color, and sheen are approved by architect.
 - 3. Mock-Up area must be refinished as required to produce an acceptable completed project.

1.5 PRODUCT DELIVERY, STORAGE, AND HANDLING

- A. Packing and Shipping
 - 1. All components of the system shall be delivered to the site in the Manufacturer's packaging, clearly identified with the product type and batch number.
- B. Storage and Protection

1. The Applicator shall be provided with a storage area for all components. The area shall be between 60 F and 90 F, dry, out of direct sunlight and in accordance with the Manufacturer's recommendations and relevant health and safety regulations.
 2. Copies of Safety Data Sheets (SDS) for all components shall be kept on site for review by the Engineer or other personnel.
- C. Waste Disposal
1. The Applicator shall be provided with adequate disposal facilities for non-hazardous waste generated during installation of the system.

1.7 PROJECT CONDITIONS

- A. Maintain manufacturer specified environmental conditions [temperature, humidity, and ventilation] within recommended limits to ensure optimal results. Do not apply materials in environmental conditions outside of manufacturers absolute limits.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. SureCrete LLC, 15246 Citrus Country Drive, Dade City, FL 33523; Phone (352)567-7973; Fax (352)567-6545; Email specs@surecretedesign.com ; Web www.SureCreteDesign.com

2.2 INTERIOR STAINED CONCRETE FLOORING

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|--|---|
| <p>A. Water Based Concrete Stain</p> <ol style="list-style-type: none"> 1. Color of Choice 2. UV Resistant 3. VOC 4. Coverage Rate | <p>ECO STAIN™</p> <p>_____</p> <p>Yes</p> <p>0 g/L</p> <p>200 sq. ft. per gal uncut</p> |
| <p>B. Water Based Clear Polyurethane Coating</p> <ol style="list-style-type: none"> 1. Sheen [Gloss or Satin]: 2. UV Resistant 3. VOC 4. Solids Content 5. Application Temperature 6. Cure Rates @ 77°F (25°C) | <p>DK 400WB™</p> <p>_____</p> <p>Yes</p> <p>72 g/L</p> <p>57%</p> <p>50°F – 90°F (10°C - 32°C)</p> <p>Dry to Touch = 6-8 hours
 Light Traffic = 24 hours
 Heavy Traffic = 3 days
 Full Cure = 5-7 days</p> |
| <p>7. Cure Rates @ 50°F (10°C)</p> | <p>Dry to Touch = 18+ hours
 Light Traffic = 48 hours
 Heavy Traffic = 5 days
 Full Cure = 14 days</p> |
| <p>C. Sacrificial Floor Protection</p> <ol style="list-style-type: none"> 1. Sheen [Gloss or Matte]: | <p>SUREFINISH™</p> <p>_____</p> |

2. VOC	72 g/L
3. Content Type	Water Based
4. Meets ASTM 2047	YES

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Do not begin installation until substrates have been properly prepared.
- B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.
- C. Interior Applications: Concrete substrates must have a moisture vapor emission rate of less than 5 lbs./1000 sq. ft. per 24 hour based on a 72-hour test period according to ASTM F 1869.

3.2 PREPARATION

- A. Clean surfaces thoroughly, in accordance with manufacturer's instructions.
- B. Protection:
 - 1. Protect walls and surrounding surfaces not to receive concrete floor stain.
 - 2. Do not allow stain to come in contact with wood or metal surfaces.
- C. Prepare concrete surface in accordance with manufacturer's instructions.
- D. Concrete shall be as specified in Section 03 30 00. Ensure concrete is a minimum of 28 days old.
- E. Ensure surface is clean, dry, structurally sound, and free from dirt, dust, oil, grease, solvents, paint, wax, asphalt, concrete curing compounds, sealing compounds, surface hardeners, bond breakers, adhesive residue, and other surface contaminants

3.3 WATER BASED CONCRETE STAIN APPLICATION

- A. Install in accordance with manufacturer's instructions and current recommendations.
- B. Apply stain in accordance with manufacturer's instructions at locations indicated on the drawings.
- C. Control depth of color by adjusting volume of stain applied.
- D. Apply 2 coats of stain. Do not scrub clean between coats.
- E. When multiple colors are required, product can be applied wet on wet or wet on dry. Use same technique as approved sample.
- F. Allow to completely dry.

3.4 SEALING APPLICATION

- A. Conduct a moisture vapor emission test prior to applying any coating. Refer to the specific sealer's Technical Data Bulletin for acceptable MVER.
- B. Apply coating according the coating manufacturer's printed instructions at a rate of 300 to 400 square feet per gallon per coat. Maintain a wet edge at all times.
- C. Allow sealer to completely dry, while staying within the recoat window, before applying additional coats.
- D. Apply second application of the coating, at 90 degrees to the direction of the first coat, using the same application method and rates.

3.4 PROTECTION OF STAINED CONCRETE FLOORING

- A. The General Contractor is responsible for using Temporary Floor Protection throughout the project to safeguard the surface quality of concrete slabs before and after application of decorative finishes or installations of other materials.
- B. All concrete floors that will be not be covered by other materials will be protected throughout the project. The concrete slab must be treated as a finished floor at all times during construction.
- C. Temporary Floor Protection will be removed, only while finish work to the concrete is being performed and will be replaced after the final finish has cured sufficiently.
- D. Protect surfaces from foot traffic for a minimum of 24 hours.
 - 1. Use of an Industrial Sacrificial Floor finish is advised.
 - 2. Sacrificial Floor Finish will be SureFinish as manufactured by SureCrete LLC, Dade City, Florida (352-567-7978). Floor finish will be applied in accordance with published installation procedures. No substitutions will be allowed
- E. Do not wash surfaces for a minimum of 48 hours.

3.5 MAINTENANCE

- A. Maintain stained and sealed concrete floors by sweeping. Clean spills when they occur and rinse dirt off with water. Wet-clean heavily soiled areas by mopping or by scrubbing with a rotary floor machine equipped with a scrubbing brush and a suitable, high-quality commercial detergent. Maintain interior floors that require polishing by using a compatible, premium-grade, emulsion-type, commercial floor polish, according to manufacturer's printed instructions and safety requirements.

END OF SECTION
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