

Architectural Specification for Sim Stain Concrete Stain Section 099300

PART 1 GENERAL 1.1 DESCRIPTION This specification describes Sim Stain application to properly prepared interior and exterior, horizontal porous substrates including, but not limited to concrete, terra cotta, stucco and plaster.

1.2 SUBMITTALS

A. Manufacturer's technical information and instructions for surface preparation, product application, material storage and handling.

B. Color: Sim Stain is manufactured in 26 colors. Custom colors are available with predetermined order size. Color Charts are available.

1.3 QUALITY ASSURANCE

A. Applicator Qualifications: Experienced applicator as well as successful installation of Sim Stain or similar waterborne stains.

B. Dilution: When diluting color concentrate, use water.

C. Color: 1. Apply stain to intended substrate or a sample of substrate with similar characteristics (color, porosity and texture). 2. Apply stain to appropriate sample area with same application method as intended for application area.

D. Pre-installation: Before start of stain application, require that all parties/trades working in or around intended application surface are in full understanding of surface preparation, application, and protection of subsequently stained and sealed area.

1.4 DELIVERY, STORAGE AND HANDLING

A. Product is freeze thaw stable in liquid state.

B. Packing: Deliver materials in manufacturer's original, unopened packages and containers, with labels identifying manufacturer, product name, product number and stain color.

C. Storage and Protection: Store materials not in use in tightly covered containers, in an ambient temperature between 40 – 115 degrees F. Store diluted stain in clean, carefully sealed containers.

D. Handling: Protect materials from freezing and/or contamination during handling and application.

1.6 PROJECT CONDITIONS

A. Temperature Conditions: Apply stain only when temperature of substrate and surrounding air temperatures is between 45 and 110 degrees F.

B. Weather Conditions: Do not apply stain on exterior surfaces during precipitation or at a temperature that is less than 5 degrees F above the dew point. For sealer coat refer to sealer manufacture or clear coat guide line for use.

1.7 SEQUENCING

A. Application of stain shall begin following substrate cleaning.

B. In ideal curing conditions (60° F, 80% Relative Humidity) schedule application of protective sealer 24 hours after stain is applied.

PART 2 PRODUCT

2.1 MANUFACTURER A. L & M Industries LLC 5949 Broken Bow Lane, Port Orange, Fl 32127. Telephone number 877-782-4632. Facsimile (386) 304-2849. Web Site www.simstain.com. E-Mail simstain@simstain.com

2.2 WATERBORNE STAIN

A. Waterborne Stain: Sim Stain

1. Description: Water-based concrete stain.
2. Concentrate Percent Solids: 25– 36 percent.
3. VOC: Diluted 8.0 – 10.5 g.
4. Color: please refer to Sim Stain color chart. Clean surface in accordance with manufacturer’s written instructions.

B. Clean concrete according to manufacturer’s written instructions.

C. A clear, film-forming sealer or “top coat” is required for installation longevity and durability.

1. Compatible Clear Sealers: solvent and water based acrylics, 1 and 2 component epoxies, 1 and 2 component poly-urethanes and poly-ureas.
2. Polyethylene slip coat resistant additives may be used.
3. Other clear coat systems may be used contact manufacture.

PART 3 INSTALLATION

3.1 EXAMINATION

A. Examine substrate and conditions, with application contractor present, to determine compliance with application requirements.

B. Notify Architect in writing of anticipated problems and/or unsatisfactory conditions.

C. Do not begin surface preparation or stain application until unsatisfactory conditions have been corrected. 3.2

3.2 PREPERATION

2. A. Remove or mask fixtures and areas that are not to be stained. 1. Ensure concrete has cured a minimum of 14-28 days. For overlay products 6 hours is recommended.
3. B. Prepare surfaces in accordance with manufacturer’s instructions. 1. Remove loose concrete, dirt, dust, oil, grease, and other contaminants. 2. Hard troweled substrates may require abrasive or chemical surface preparation to ensure surface acceptance of stain.
4. C. Surface 1. Surface must be free of all contaminants and appear dry. Avoid excessive application of stain as adhesion of clear coat may be affected.

3.3 APPLICATION

A. Dilute product concentrates to achieve desired appearance. Recommended dilution ratio is 1 part concentrate to 4 parts water. 1. Decreased dilution ratio (amount of water): increases color intensity and opacity. 2. Increased dilution ratio: decreases color intensity and opacity.

B. Apply stain to prepared substrate according to manufacturer’s written instructions. Colors may be mixed on site with care & control for added variegating effects.