

SECTION 03 05 00

CONCRETE FLOOR SEALER

PART 1 - GENERAL

1.01 DESCRIPTION

- A. This Section includes a clear concrete floor sealer at all new and existing concrete floor surfaces and as required by Section 03050 of the Structural Retrofit Specifications.

1.02 SYSTEM PERFORMANCE REQUIREMENTS

- A. Concrete floor sealer shall react with concrete surfaces to produce a dense, hydrophobic, insoluble, moisture barrier to seal out contaminants, while hardening and densifying concrete surface.

1.03 SUBMITTALS

- A. Product Data: Manufacturer's product data and application and installation instructions.
- B. Warranty.
- C. LEED Submittals:
 - 1. Credit IEQ 4.3: Furnish product data showing that concrete floor sealer complies with the VOC requirements specified in SCAQMD Rule 1113, as required for the following Credits:

1.04 ENVIRONMENTAL QUALITY ASSURANCE

- A. Credit IEQ 4.3: Concrete floor sealer shall meet the requirements of SCAQMD Rule 113, Architectural Coatings, rules in effect on January 1, 2004.
- B. Applicable LEED Credits:
 - 1. Credit IEQ 4.3 – Flooring Systems.

1.05 JOB CONDITIONS

- A. Ensure concrete has been cured a minimum of 3-days, is free of curing compounds and other sealers, and is free of laitance, grease, oil, and contaminants.
- B. Protect adjacent surfaces/areas from damage due to overspray.

1.06 WARRANTY

- A. Warranty sealed concrete floors to be free of dusting from abrasion for a period of 10-years from Substantial Completion. This warranty shall be in addition to and not a limitation of other rights the County may have against the Developer Design/Builder under the Contract Documents.

PART 2 - PRODUCTS

2.01 APPROVED MANUFACTURERS

- A. L&M Construction Chemicals, Inc. "Seal Hard", Euclid, Sonneborn or approved equal.

2.02 MATERIALS

- A. Sealer/Hardener/Densifier: Solution of 100-percent active ingredient chemicals that penetrate concrete to seal, densify, dustproof, and harden to resist water and oil penetration, and contamination, with the following physical properties:
 - 1. Active Ingredients: 100-percent.
 - 2. Type: Siliconates.
 - 3. Flash Point: None.

4. Specific Gravity: 1.155.
5. VOC/gmL: 0.
6. Solids Minimum: 30-percent.

PART 3 - EXECUTION

3.01 PREPARATION

- A. Ensure surfaces are clean and free of all contaminants and any film forming compounds or sealers.
- B. Ensure concrete has been cured a minimum of 3-days.
- C. Test concrete surface for Ph levels and verify that Ph levels are acceptable to sealer manufacturer.

3.02 APPLICATION

- A. Apply concrete floor sealer to interior concrete floors where scheduled, in accordance with manufacturer's instructions.
- B. Apply directly from container onto prepared surfaces, undiluted.
- C. Apply with mechanical "walk-behind" or riding scrubber.
- D. Apply at a minimum rate of 1-gallon per 150- to 200-sq. ft.
- E. Allow surfaces to remain wet with sealer for 30- to 60-minutes.
- F. Remove excess sealer at end of application by water flushing and squeegeeing dry.
- G. Apply in one coat. Apply two coats to porous concrete surfaces.

END OF SECTION