

SECTION 03050
CONCRETE FLOOR SEALER

PART 1 - GENERAL

1.01 DESCRIPTION

A. This Section includes a clear concrete floor sealer at the following locations:

1. New stair in Basement to First Floor.
2. New transition stairs and ramps.
3. New vestibules into Stairs A & B.
4. Existing concrete in vestibules.
5. New concrete slabs and surfaces as indicated.

B. Related Sections:

1. Cast-in-place concrete is specified in Section 03300.

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.

1.04 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.

1.05 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 Owner may have against the Contractor 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