

SECTION 03 35 11

CONCRETE FLOOR FINISHING

PART 1 – GENERAL

1.1 PURPOSE

- A. This guideline is intended to provide useful information to the Professional Service Provider (PSP) to establish a basis of design. PSP is to apply the principles of this section such that the University of Texas at Arlington (UTA) may achieve a level of quality and consistency in the design and construction of their facilities. Deviations from these guidelines must be approved by UTA and may require justification through Life Cycle Cost (LCC) analysis and submitted to UTA for approval.

1.2 LESSONS LEARNED AND DESIGN CONSIDERATIONS

- A. **Contractor shall provide signage addressing the protection of concrete from spillage and stains.**

1.3 SECTION INCLUDES

- A. Finishing floor slabs.
- B. Surface treatment with sealer

1.4 RELATED REQUIREMENTS

- A. Section 03 30 00 – Cast-in-Place Concrete: Prepared concrete floors ready to receive finish

1.5 REFERENCE STANDARDS

- A. ACI 301 - Specifications for Structural Concrete for Buildings; American Concrete Institute International; current edition.
- B. ACI 302.1R - Guide for Concrete Floor and Slab Construction; American Concrete Institute International; current edition.

1.6 SUBMITTALS

- A. See Division 01 for submittal procedures.
- B. Product Data: Provide data on sealer, including information on compatibility of different products and limitations.
- C. Maintenance Data: Provide data on maintenance renewal of applied coatings.

1.7 QUALITY ASSURANCE

- A. Perform Work in accordance with ACI 301.

1.8 DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials in manufacturer's sealed packaging, including application instructions.

1.9 FIELD CONDITIONS

- A. Maintain light level equivalent to minimum 200 W light source, placed 8 feet above the floor surface, for each 425 sq ft of floor being finished.
- B. Do not finish floors until interior heating system is operational.
- C. Maintain ambient temperature of 50 degrees F minimum.
- D. Provide ventilation sufficient to prevent injurious gases from temporary heat or other sources affecting concrete.

PART 2 – PRODUCTS

2.1 MANUFACTURERS

- A. Concrete Floor Finishes:
 - 1. L&M Construction Chemicals, Inc; Product PermaGuard SPS.
 - 2. Substitutions: See Division 01.

PART 3 – EXECUTION

GUIDE SPECIFICATIONS FOR DESIGN AND CONSTRUCTION DOCUMENTS

3.1 EXAMINATION

- A. Verify that floor surfaces are acceptable to receive the work of this section.

3.2 FLOOR FINISHING

- A. Finish concrete floor surfaces in accordance with ACI 301 and ACI 302.1R.
- B. Steel trowel surfaces that are scheduled to be exposed.
- C. In areas with floor drains, maintain design floor elevation at walls; slope surfaces uniformly to drains at 1/8 inch per foot nominal.

3.3 FLOOR SURFACE TREATMENT

- A. Apply sealer to scheduled floor surfaces in accordance with manufacturer's instructions.
- B. Premoisten micro-fiber pad with sealer. Working form joint-to-joint, apply evenly and thinly with fine spray and pad. Do not puddle.
 - 1. Apply 2 coats, perpendicular to each. Allow sealer to thoroughly dry between each application.
 - 2. Allow final coat to dry a minimum of 4 hours. Burnish final coat using a high speed, 3000 RPM burnisher with soft white pad or soft natural hog's hair.

END OF SECTION