

SECTION 03310

CONCRETE FLOOR PREPARATION

PART 1 GENERAL

1.01 DIVISION OF RESPONSIBILITIES TERMINOLOGY: **NOT USED**

1.02 SUMMARY:

- A. The Contractor shall provide concrete floor preparation of existing concrete floors where shown on the drawings, as specified in this section, and as needed for a complete and proper preparation to receive subsequent floor surfacing.
- B. Floor preparation as specified in this Section is intended where existing conditions require the use of mechanical abrading equipment or chemical removers as supplementary methods of floor preparation to receive scheduled finish floor materials. Floor preparation includes the partial or complete removal of existing under-slab items that protrude above the finish floor line and, if left in place without modifications or removal, would subsequently affect the installation and performance of applied finish floor materials.

1.03 RELATED WORK:

- A. Section 03300-Cast-In-Place Concrete
- B. Section 09650-Resilient Flooring
- C. Section 09660-Resilient Sheet Flooring.
- D. Section 09670-Epoxy Flooring on Concrete.

PART 2 PRODUCTS

2.01 HEAVY DUTY FLOOR CLEANING:

- A. For existing floor surfaces requiring Floor Cleaning as part of the Concrete Floor Preparation, EXCEPT at floor surfaces scheduled to receive Vinyl Composition Tile (VCT), provide a heavy duty biodegradable citrus-based degreaser product equal to Citrex by L & M Construction Chemicals Inc., Omaha NE (800-362-3331)
- B. For existing floor surfaces scheduled to receive Vinyl Composition Tile (VCT), provide a heavy-duty concrete floor cleaning product that is compatible with the finish flooring and flooring adhesives to be installed

2.02 ETCHING AND LAITANCE REMOVER: For floor surfaces scheduled to receive Resilient Flooring, furnish a muriatic acid 10% Etching and Laitance Remover solution, with supplementary rinsing and neutralizing agents, all as specifically approved as a compatible product by the flooring product manufacturer. Do NOT use Etching and Laitance Remover for surfaces scheduled to receive Concrete Sealer

2.03 FLOOR ABRADING WORK: If required in order to install the floor covering specified in the floor area subject to floor abrading, provide floor abrading equipment designed to provide dry, dustless surface shotblast abrading and utilizing an integral vacuum system, equal to abrading equipment as manufactured by Wheelabrator Blastrac, Berlin NJ. All equipment, materials and methods shall be in compliance with pertinent regulations of governmental agencies having jurisdiction

2.04 FLOOR PATCHING PRODUCTS:

A. Flash Patch and Skim Coating:

1. For cracks, minor holes, crevices, score marks, control and construction joints, the Contractor shall provide concrete patching product compatible with finish flooring adhesives, equal to products by Armstrong World Industries, Lancaster PA (800-448-1405).
 - a. Armstrong S-194 Patch, Underlayment and Embossing Leveler.
 - b. Armstrong S-183 Fast Setting Cement-Based Underlayment
 - c. Armstrong S-184 Fast Setting Cement-Based Patch and Skim Coat.
2. For holes and larger patches, provide concrete patching product equal to L & M Durapatch Industrial, fiber-reinforced high-strength cement-based patching system, by L & M Construction Chemicals Inc.
 - a. Acceptable Alternative: Provide "Ardex SD-P Instantpatch", self-drying, fast-setting, Concrete Underlayment Patch, by Ardex Engineered Cements, Aliquippa PA (724-203-5000).

2.05 FLOOR LEVELING PRODUCTS:

- A. Floor Leveling (Underlayment): Provide Self-Leveling Underlayment Concrete equal to "Ardex K-15", Ardex Engineered Cements, Aliquippa PA (724-203-5000), at areas scheduled to receive finish flooring, and in quantities and layers of application necessary to achieve the level tolerance as recommended by the flooring product manufacturer
- B. Floor Leveling (Concrete Topping): Provide Self-Leveling Concrete Topping equal to "Ardex K-500", by Ardex Engineered Cements, at areas scheduled to receive no additional finish flooring with the possible exception of Concrete Sealer/ Hardener.

PART 3 EXECUTION

- 3.01 SURFACE CONDITIONS: The Contractor shall examine the areas and conditions under which work of this Section will be provided, shall correct conditions detrimental to the timely and proper completion of the work, and shall NOT proceed until unsatisfactory conditions are corrected.
- 3.02 CONCRETE FLOOR PREPARATION: Provide all Concrete Floor Preparation work in accordance with governmental agencies having jurisdiction, and as recommended by the flooring product manufacturers and their respective trade association standards.

END OF SECTION