

SECTION 03311

CONCRETE FLOORING REPAIR

PART 1 - GENERAL

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1.01 RELATED DOCUMENTS

- A. General provisions of the Contract, including General and Supplementary Conditions, Division 1 Specification Sections, and Drawings, apply to this Section.

1.02 SUMMARY

- A. Work Included:
  - 1. Patching and matching of existing interior concrete floor surfaces.
  - 2. Miscellaneous items and accessories necessary for patching and matching of existing interior concrete floor surfaces.
- B. Related Work Specified Elsewhere:
  - 1. Section 09705: Resinous Flooring.

1.03 SUBMITTALS

- A. Product Data: Submit complete manufacturer's product information including, but not limited to, product data, mixing instructions and application instructions.

1.04 QUALITY ASSURANCE

- A. Comply with all applicable codes and regulations. In case of conflict between codes, standards and the specifications, the most stringent shall apply.

1.05 PROJECT CONDITIONS

- A. Cooperate with the Contractor and all other trades and Contractors whose work is in any way related to or dependent upon concrete work. Allow reasonable time for others to place materials and complete their work, including embedded items and sleeves.

1.06 PRODUCT HANDLING

- A. Use all means necessary to protect concrete work from damage prior to, during and after placing. Repair or replace damaged components at no additional cost to Owner.

PART 2 - PRODUCTS

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2.01 MANUFACTURERS

- A. Acceptable Manufacturer: Subject to compliance with requirements, provide products of the following:
  - 1. Ardex, Inc., Coraopolis, PA, 412-264-4240.
- B. Additional Manufacturers: Subject to compliance with requirements, additional manufacturers offering Portland cement based products which may be accepted include the following:
  - 1. Euclid Chemical Company, Cleveland, OH, 800-321-7628.
  - 2. Dependable Chemical Co., Inc., Rocky River, OH, 800-227-3434.

2.02 MATERIALS

- A. Ardex SD-P trowelable underlayment patch.
- B. Ardex SD-L self leveling underlayment.

- C. Ardex V-800 self-leveling, pourable or pumpable underlayment.
- D. Ardex K-15 self-leveling, pourable or pumpable underlayment.

### 2.03 COMPONENTS

- A. For Areas Up To 4 Square Feet: Ardex SD-P trowelable underlayment patch, self drying in 1 hour, for thickness up to 1/2 inch without aggregate; up to 1 inch with aggregate. Primer: P-51 on standard absorbent concrete; P-82 for non-porous sub-floors. Can be feather edged.
- B. For Areas Of Any Size: Self drying Ardex SD-L self leveling underlayment, 2-3 hour drying time; for thickness up to 1/2 inch without aggregate; up to 1 inch with aggregate. Primer: P-51 on standard absorbent concrete; P-82 for non-porous sub-floors. Can be feather edged.
- C. For Areas Exceeding 4 Square Feet:
  - 1. Ardex V-800 self-leveling, pourable or pumpable underlayment, 2-3 days drying time; for thickness up to 3/8 inch without aggregate; up to 1/2 inch with aggregate. Primer: P-51 on standard absorbent concrete; P-82 for non-porous sub-floors. Can be feather edged.
  - 2. Ardex K-15 self-leveling, pourable or pumpable underlayment, 16 hour drying time: for thickness from feather edge up to 1-1/2 inches neat; and up to 5 inches with aggregate for large fills or tapered transitions. Primer: P-51 on standard absorbent concrete; P-82 for non-porous sub-floors. Can be feather edged.
- D. Aggregate: In large fill areas, provide 1/8 inch to 1/4 inch clean, dry, well graded pea gravel aggregates conforming to concrete leveling and patching compound manufacturer's recommendations, but in no case exceeding ASTM C330, Grading No. 8.
- E. Water: Potable.

### PART 3 - EXECUTION

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#### 3.01 PATCHING EXISTING CONCRETE FLOOR SURFACES

- A. Inspect existing concrete substrate and verify that existing surfaces meet the requirements of the Concrete Patching Compound Manufacturer.
  - 1. Apply corrective measures as required by the Patching compound Manufacturer including, but not limited to, repair of existing cracks in the concrete slab, at no additional cost to the Owner.
- B. Apply primer only as recommended by the Concrete Patching Compound Manufacturer. Use primer supplied by the Compound Manufacturer.
- C. Thoroughly mix concrete material with potable water. Follow Manufacturer's mixing ratio recommendations. Do not overwater. Use Manufacturer's recommended mixing drum, and mixing paddle connected to a 1/2 inch heavy duty electric drill.
- D. Pour or trowel Concrete Patching Compound Material and spread in place using the Manufacturer's recommended spreaders. Immediately smooth top surface of material using concrete topping manufacturer's recommended smoother.
  - 1. Thoroughly fill area. Provide a smooth transition between area receiving patching material and adjacent existing concrete surfaces.
  - 2. Finish to achieve an overall FF25/FL20 tolerance, within the area of the patch.

END OF SECTION