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SECTION 03 35 20

STAINED CONCRETE FINISHING

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**PART 1 - GENERAL**

1.1 SUMMARY

- A. Section Includes: Provide chemical stain finish for cast-in-place concrete with color matched curing and finishing materials; non-slip finish.

- 1. Provide saw cut joints with integral color grout in patterns as indicated.

1.2 ADMINISTRATIVE REQUIREMENTS

- A. Coordination: Coordinate manufacturer requirements for preparation of concrete for chemical stain finish with installer of concrete; inform of limitations of materials that might be detrimental to finish.

1.3 SUBMITTALS

- A. Product Data: Submit manufacturer's literature for concrete stain materials; provide cleaning instructions, including clearly indicated listing of potentially detrimental cleaning materials.
- B. Samples: Submit samples with one surface representative of each required color with each component applied including stain, color matched curing material, sealer, and materials for non-slip finish.

- 1. Include sample of saw cut joint including intersection of saw cuts.

1.4 QUALITY ASSURANCE

- A. Qualification of Installer: Company with minimum five years successful experience in stained cast-in-place concrete finishes similar to finish required for Project.
- B. Mock-Up: Provide at least 100 square foot mock-up of stained finish. Location to be approved by Architect. Accepted mock-up establishes minimum standard of quality and workmanship for colored concrete finish.

- 1. Mock-up to include control joints; indicate method of cutting control joints.

**PART 2 - PRODUCTS**

2.1 SYSTEMS MANUFACTURERS

- A. L.M. Scofield Co.
- B. Solomon Colors.
- C. Symons Corporation.
- D. Substitutions: Refer to Section 01 25 00.

**2.2 MATERIALS**

- A. Systems Description: Provide chemical stain finish designed specifically for cast-in-place concrete with color matched curing and finishing materials.
  - 1. Materials: Materials for stained concrete finishes shall each come from a single source and shall not be changed throughout Project.
  - 2. Non-Slip Finish: Floor finish to comply with Americans with Disabilities Act (ADA) Standards and California Building Standards Code for non-slip floor finish for persons with disabilities.
    - a. Smooth floor finish required, use of textures not acceptable.
- B. Stain: Chemically reactive, water-solution of metallic salts for coloring cured concrete.
- C. Color-Matched Curing Material: Manufacturer's standard colored curing material conforming to ASTM C309 - Liquid Membrane Forming Compounds for Curing Concrete.
- D. Clear Sealer: Manufacturer's standard sealer as recommended for specified system.
- E. Quantities: Use materials as required to match selected finishes.
- F. Integral Color Grout: Non-metallic, pre-mixed, shrinkage resistant, non-corrosive, non-staining product containing selected silica sands, Portland cement, shrinkage compensating agents, plasticizing and water reducing agents.
  - 1. Grout: Same base materials, cement, aggregates and pigments, as concrete with coloring as required to match colored concrete.
  - 2. Pigments: Pure, non-fading, non-staining, mineral oxides color conforming to ASTM C979 and designed and mixed to provide uniform color finish.
  - 3. Colors: Provide as indicated, as selected by Architect from manufacturer's full range of colors where not otherwise indicated.
    - a. Intent is for integral color grout to contrast with stain to provide patterns indicated.

**PART 3 - EXECUTION****3.1 EXAMINATION**

- A. Site Verification of Conditions: Inspect existing substrates and conditions; beginning application of color materials to concrete signifies acceptance of substrates and conditions.
  - 1. Ensure concrete finishing is done in manner to allow for application of specified chemical color finish.

**3.2 APPLICATION**

- A. Apply chemical coloring and curing materials in process conforming to coloring material manufacturer recommendations and instructions as required to match approved samples and mock-up.
  - 1. Touch-up non-uniform and weak toned areas as necessary to match approved mock-up.
- B. Do not disturb or damage concrete.
- C. Apply and cure colored concrete surfaces under near identical conditions to minimize appearance blemishes and irregularities beyond those described in manufacturer's literature and approved in mock-up.
- D. Conduct special inspections with Architect and make repairs or replace unsatisfactory work.
- E. Saw Cut Joints for Patterns: Provide saw cut joints at locations indicated on Drawings; use masonry blades with saws designed for cutting concrete.
  - 1. Patterns: As indicated on Drawings with control joints saw cut into concrete.
  - 2. Joints: Clean, smooth, straight joints free of broken and rough edges; match approved samples and mock-up.
  - 3. Grout: Fill joints with integral color grout after staining of concrete is complete and cured; take special care to prevent grout from discoloring stained concrete.
- F. Seal concrete with clear sealer after repairs and replaced work is completed.
  - 1. Apply sealer after grouting saw cut joints.

**3.3 PROTECTION**

- A. Exclude traffic for at least 14 days after finishing; when construction traffic is permitted, maintain surfaces as clean by removing stains and materials spillage as they occur.

**END OF SECTION**