

CEMENTITIOUS COATINGS

PART 1 GENERAL

- 1.1 SECTION INCLUDES
- A. Cementitious coating for horizontal and vertical concrete surfaces indicated on drawings.
 - B. Preparation of existing concrete surfaces.
- 1.2 RELATED SECTIONS
- A. Section 03300 - Cast-in-Place Concrete.
- 1.3 SUBMITTALS
- A. Submit under provisions of Section 01300.
 - B. Selection Samples: Color cards showing manufacturer's full selection.
 - C. Manufacturer's installation instructions.
- 1.4 QUALITY ASSURANCE
- A. Installer Qualifications: Experienced in installation of sprayed coatings or trained by coating manufacturer.
- 1.5 WARRANTY
- A. Provide manufacturer's 5-year limited warranty.

PART 2 PRODUCTS

- 2.1 MANUFACTURERS
- A. Cementitious Coatings: Southern Grouts and Mortars, 1502 SW 2nd Place, Pompano Beach, FL 33069. ASD. Tel: (800) 641-9247 or (954) 943-2288. Fax: (954) 943-2402. Email: sales@sgm78.com
 - B. Requests for substitutions will be considered in accordance with provisions of Section 01600.
 - C. Substitutions: Not permitted.
- 2.2 MATERIALS
- A. Cementitious Coating: SGM Southcrete(tm) Spray Deck; mineral aggregate and portland cement combined with polymer resin.
 - 1. Color: White.
 - 2. Color: As selected from manufacturer's full line.
 - 3. Color: _____.
 - 4. Provide enough material to have sufficient quantity for replacement of unsatisfactory work.
 - B. Stain/Sealer: SGM Color Guard Plus; water-based penetrating sealer.
 - 1. Color: Same as base coating.
 - 2. Color: Clear.
 - 3. Color: As selected from manufacturer's full line.
 - 4. Color: _____.
 - C. Water: Potable water without detrimental minerals, metals, hardness, or alkalinity; if in doubt, verify quality with coating manufacturer.
 - D. Stencils: SGM Reusable Templates; 1/16 inch (1.5 mm) thick plastic.
 - 1. Pattern: As selected from manufacturer's full line.
 - 2. Pattern: _____.
 - E. Patterning Tape: 3M Pattern Tape; glass filament-reinforced tape with synthetic rubber adhesive.
 - 1. Width: 1/2 inch (12 mm).
 - 2. Width: 3/4 inch (19 mm).
 - F. Joint Sealant: SGM Southcrete 230 Joint Sealant; single-component, non-sag, rapid-skinning, low odor, water-cleanable, weather resistant elastomeric sealant.

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PART 3 EXECUTION

3.1 PREPARATION

- A. Protect surrounding surfaces, vegetation, and pool water from damage and contamination due to cleaning and application procedures.
- B. Examine concrete surfaces to identify conditions that might interfere with proper bonding of coating.
 - 1. Test for presence of oil or grease by wetting surface and examining for beading water droplets.
 - 2. Look for algae, mold, or mildew.
 - 3. Look for dirt, paint, mortar droppings, patching compounds, loose tile, cracked concrete.
 - 4. Identify hollow spots in concrete by sounding.
- C. Clean concrete surfaces of all material that might interfere with proper bonding of coating.
 - 1. Clean with high pressure water.
 - 2. Wash with chlorine until algae, mold, and mildew are gone.
 - 3. Wash oil and grease spots using trisodium phosphate and water; soak if necessary.
 - 4. Remove coatings and heavy contaminant build-up by shot- or sand blasting.
- D. Remove and repair all hollow and loose concrete.
- E. Fill cracks up to 1/4 inch (6 mm) wide with joint sealant.
- F. Saw cut new control joints at locations indicated on drawings, as close as possible to existing cracks.
- G. Etch cleaned surface with muriatic acid solution.
 - 1. Use concentration necessary to clean and roughen surface; smooth surfaces may require higher concentration.
 - 2. Neutralize acid and rinse off, without contaminating adjacent surfaces, soil, or water.
- H. Cover tile, pool inlets and outlets, plastic trim and items, and adjacent building surfaces before beginning application.

3.2 INSTALLATION

- A. Do not begin installation on new concrete until concrete has cured at least 28 days.
- B. Apply coating in accordance with coating manufacturer's instructions and recommendations.
- C. Mix coating to produce best quality and consistent color throughout.
- D. Apply using methods and sequence selected to produce the most uniform finish. Avoid practices that may cause shadows, streaks, or discoloration.
- E. Apply base coat over entire surface filling imperfections and low spots; allow to dry and then scrape to removed ridges and bumps.
- F. Apply patterning tape to achieve designs indicated on drawings.
- G. Use stencils to achieve designs indicated on drawings.
- H. Spray apply coating to entire area.
 - 1. Apply and "knock down" by trowel to achieve flattened texture.
 - 2. Use techniques recommended by manufacturer to achieve desired texture.
- I. After coating has dried, remove tape design.
- J. If protection of adjacent surfaces has been damaged or removed, re-apply.
- K. Apply two coats of stain/sealer to entire surface, including tape design areas.
- L. Replace areas of non-uniform appearance.

3.3 PROTECTION

- A. Prevent foot traffic for at least 3 hours and heavy traffic for at least 48 hours.