

# EXPOSED AGGREGATE POOL FINISH

## PART 1 GENERAL

- 1.1 SECTION INCLUDES
- A. Preparation of existing pool surfaces.
  - B. Exposed aggregate pool finish.
  - C. Pool start-up, including filling, adjusting chemistry, and brushing for specified initial start-up period.
- 1.2 RELATED SECTIONS
- A. Section 09220 - Portland Cement Plaster.
  - B. Section 09300 - Tile.
- 1.3 SUBMITTALS
- A. Submit under provisions of Section 01300.
  - B. Selection Samples: Color samples showing manufacturer's full selection.
  - C. Manufacturer's installation instructions.
  - D. One copy of each of the following, for Owner's use:
    1. National Spa and Pool Institute "Pool Plaster Technology."
    2. National Plasterers Council "Start-Up Do's and Don'ts for Newly Plastered Swimming Pools."
    3. National Plasterers Council "Care Tips for New Swimming Pool Plaster."
  - E. Submit batch numbers of bags used to Owner for warranty purposes.
- 1.4 QUALITY ASSURANCE
- A. Installer Qualifications: Experienced in installation of pool plasters or trained by coating manufacturer.
- 1.5 WARRANTY
- A. Provide manufacturer's 5-year limited warranty to pool owner.
- 1.6 MAINTENANCE MATERIALS
- A. Provide one bag of each batch used in mix to Owner, with description of mix ratio used and installation instructions, for Owner's use in making repairs.

## PART 2 PRODUCTS

- 2.1 MANUFACTURERS
- A. Pool Coating: 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. Pool Coating: SGM Diamond Brite(tm) exposed aggregate finish, made with 100 percent quartz aggregate and polymer modified cement.
    1. Color: As selected from manufacturer's full line.
    2. Color: \_\_\_\_\_.
    3. Provide enough material to have sufficient quantity for replacement of unsatisfactory work.

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- B. Pool Coating: SGM River Rok exposed aggregate finish, made with naturally colored stones and polymer modified cement.
  - 1. Color: As selected from manufacturer's full line.
  - 2. Color: \_\_\_\_\_.
  - 3. Provide enough material to have sufficient quantity for replacement of unsatisfactory work.
- C. Pool Coating: SGM Durazzo polished marble finish, made with select premium marble aggregate and polymer modified cement.
  - 1. Color: As selected from manufacturer's full line.
  - 2. Color: \_\_\_\_\_.
  - 3. Provide enough material to have sufficient quantity for replacement of unsatisfactory work.
- D. Bond Coat: SGM Bond Kote.
- E. Hydraulic Cement (Pool Patch): SGM Instant Hydraulic Cement.
- F. Patching Cement: SGM Vinyl Patching Compound or SGM Sand Topping Mix and Concrete Bonding Agent.
- G. Water: Potable water without detrimental minerals, metals, hardness, or alkalinity; if in doubt, verify quality with coating manufacturer.

## PART 3 EXECUTION

### 3.1 PREPARATION

- A. Examine pool surfaces to identify conditions that might interfere with proper bonding of coating.
  - 1. Look for algae, mold, or mildew.
  - 2. Look for dirt, paint, mortar droppings, patching compounds, loose tile, cracked plaster.
  - 3. Identify hollow spots in plaster by sounding.
- B. Clean pool surfaces of all material that might interfere with proper bonding of coating.
  - 1. Clean with high pressure water or by sand blasting.
  - 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.
- C. Remove and repair all hollow and delaminated plaster.
  - 1. Saw an area 3 inches around bad spots and remove plaster inside the saw cut.
  - 2. Undercut the edges of remaining plaster.
  - 3. Fill holes with specified patching cement to level of existing plaster.
- D. Remove loose tile and fittings; remove 2 inches of tile and underlying plaster and undercut 3/8 inch.
- E. Stop water penetration from outside pool. Plug cracks and leaks around fittings using hydraulic cement (pool patch).
- F. Etch cleaned surface with muriatic acid solution. Use concentration necessary to clean and roughen surface; smooth surfaces may require higher concentration. Neutralize surface with solution of baking soda and water.
- G. Plug pool inlets and outlets to prevent clogging.
- H. Mark location of fittings using tape on coping or on a measured drawing.
- I. Provide sump pump at main drain to remove all running and standing water.

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## 3.2 INSTALLATION

- A. Do not begin installation until concrete pool shell has cured at least 28 days.
- B. Apply coating in accordance with coating manufacturer's instructions and recommendations.
- C. On existing plastered surfaces, apply bond coat with stippled finish.
- D. Mix coating to produce best quality and consistent color throughout. If material from more than one batch number is used, mix all batches together for color consistency.
- E. Apply, trowel, and expose aggregate using methods and sequence selected to produce the most uniform finish. Avoid practices that may cause washouts, shadows, streaks, or discoloration.
- F. At areas that will be above water line, take care to avoid blisters or hollows and water cure for 7 to 28 days to reduce possibility of shrinkage cracking.
- G. Replace areas of non-uniform appearance.

## 3.3 START-UP

- A. Allow coating to air dry before filling pool; avoid filling too soon that could cause mottling; avoid drying out causing shrinkage cracking.
- B. Filter pool water using a carbon tank and sequestering agent to remove contaminants that might cause staining.
- C. Fill pool and start circulation system when water level is above return inlets; circulate water continuously for | the first 3 days.
- D. Test water and adjust chemistry to best avoid discoloration and scale. Refer to coating manufacturer's recommendations and National Spa and Pool Institute "Pool Plaster Technology" and National Plasterer's council "Start-Up Do's and Don't for Newly Plastered Swimming Pools."
- E. Brush entire coated surface twice a day for the first 3 days. Thereafter, brush entire surface once a day for 2 weeks.
- F. Do not use wheeled vacuums for at least 14 days (to avoid wheel marks) and do not install automatic vacuums for at least 28 days.