

SECTION 033533 – STAMPED CONCRETE FINISHING

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes: Textured Concrete.
- B. Related Sections:
 - 1. Section 033000 – Cast-In-Place Concrete: Concrete for textured concrete.
- C. Refer to section 033000 for all requirements not specifically identified in this section.

1.2 SUBMITTALS

- A. Product Data:
 - 1. Submit product data for all concrete materials and admixtures prior to beginning production to verify compatibility of materials for textured concrete.
 - 2. Pattern and release agent to be used.
 - 3. Floor hardener to be used.
 - 4. Curing and sealing materials.
 - 5. Joint sealant/filler materials.
- B. Mix Design: Submit mix designs for color textured concrete in accordance with Section 033000 prior to field sample construction.
- C. Submit product data and mix design submittals within 21 days of installation.
- D. Installer Qualifications:
 - 1. Provide documentation showing installer is licensed from the manufacturer to install the material to be used.
 - 2. Provide minimum of 10 projects with locations within the last 3 years of similar in type, size and complexity to Work of this contract.
 - 3. Ensure Lead finisher is certified under the Concrete Flatwork Finisher Training and certification Program per the American Concrete Institute.

1.3 QUALITY ASSURANCE

A. Textured Concrete Field Samples:

1. Prior to commencing textured concrete work, prepare a 24" x 24" reference sample of each type textured concrete surface for approval by Architect. The sample shall be the standard for acceptance for textured concrete.

1.4 ENVIRONMENTAL REQUIREMENTS

- A. Conform to requirements of Section 033000 for Hot Weather and Cold Weather Concreting.

PART 2 - PRODUCTS**2.1 MANUFACTURERS**

- A. Subject to compliance with project requirements, provide products for textured concrete as manufactured by the following to the extent as specified hereinafter for the specific product:
 - 1. Basis-of-Design: L. M. Schofield Co. (Sika), (800) 800-9900.
 - 2. Barrier International, (972) 492-1271.
 - 3. Bomanite Corporation, (800) 854-2094.
 - 4. H & C distributed by Sherwin-Williams. (800) 321-8194.
 - 5. Increte Systems Inc., (800) 752-4626.
 - 6. Patterned Concrete Industries, Inc., (800) 252-4619.
- B. Substitutions allowed in compliance with Section 012500.

2.2 CONCRETE MATERIALS, ADDITIVES, AND CONCRETE MIX

- A. Conform to the requirements of Section 033000.

2.3 IMPRINT TOOLS

- A. Provide tool patterns as follows:
 - 1. Basis-of-Design Patio Pattern: Pine – Interlocking Plank Pattern, by Scofield.
 - a. Tool Size: 12 inch x 48 inch.

2.4 HARDENER

- A. Dry-shake hardener. Subject to compliance with project requirements, provide hardener as manufactured by one of the following:
 - 1. Basis-of-Design: Lithochrome Color Hardener, by Scofield.
 - a. Color: A-55 Pecan Tan.

2.5 SEALER

- A. Textured concrete sealer shall consist of a mixture of 20 parts of sealer to one part skid-resistant additive.
 - 1. Basis-of-Design Sealer with Curing Agent: CureSeal 350, by Scofield.
 - 2. Skid-Resistant Additive:

- a. "Sharkgrip" Skid-Resistant Additive by H & C distributed by Sherwin-Williams.
- b. "Traction Grip" Non-Skid Additive by Brickform.

PART 3 - EXECUTION

3.1 PREPARATION AND CONCRETE PLACING AND FINISHING

- A. Conform to the requirements of Section 033000.
- B. Prior to texturing, float freshly placed concrete with wood float to create an open and uniform surface.

3.2

3.3 INSTALLATION

- A. Apply 2/3 of specified application rate to freshly floated concrete surface. Bleed water shall not be present during or following application of first and second shake.
- B. Do not throw dry-shake; distribute evenly by hand or mechanical spreader designed to apply floor hardeners. Consult hardener manufacturer for recommended manufacturers of mechanical spreaders.
- C. As soon as dry-shake material has absorbed moisture, indicated by uniform darkening of surface, mechanically float concrete surface a second time, just enough to bring moisture from base slab through dry-shake color hardener.
- D. Immediately following second floating, apply remaining 1/3 of specified application rate. If applied by hand, broadcast in opposite direction of first application for a more uniform coverage. If a mechanical spreader is used, apply the same manner as previously described.
- E. As soon as dry-shake material has absorbed moisture, mechanically float concrete surface a third time.
- F. Do not add water to the surface.
- G. Begin imprinting operations immediately after applying dry-shake colored hardener, according to manufacturer's written instructions, including application of powder antiquing release agent.

3.4 CURING

- A. Imprinted concrete shall be cured with liquid membrane curing and sealing compound as recommended by manufacturer.

- B. As soon as possible after antiquing release has been removed and after moisture content of concrete is low enough that alkali and other salts do not become trapped beneath sealer, normally a minimum of 14 to 28 days after placement, apply 2-coats of specified curing and sealing compound according to manufacturer's written instructions.
- C. There should be no free water on the surface at time of application.

3.5 DEFECTIVE CONCRETE

- A. Concrete that does not satisfy the performance requirements of this specification and Section 033000, including but not limited to, tolerance, strength, durability and finish shall be removed and replaced at no extra cost to the Owner if repair cannot be accomplished to the satisfaction of Architect.

3.6 FIELD QUALITY CONTROL

- A. Concrete testing shall be as specified in Section 014000.

3.7 PROTECTION

- A. Immediately after placement, protect concrete from premature drying, excessively hot or cold temperatures, and damage.
- B. After curing and after application of sealer, cover imprinted concrete area with polyethylene. Lay panels of hardboard over polyethylene at traffic paths. Remove protection material from finish surfaces only after Work in the area has been completed.
- C. Patch or replace damaged portions of concrete.

END OF SECTION 033533