

Product Guide Specification

Specifier Notes: This product guide specification is written according to the Construction Specifications Institute (CSI) 3-Part Format, including *MasterFormat*, *SectionFormat*, and *PageFormat*, as described in *The Project Resource Manual—CSI Manual of Practice, Fifth Edition*.

This section must be carefully reviewed and edited by the Architect to meet the requirements of the project and local building code. Coordinate this section with other specification sections and the Drawings. Delete all “Specifier Notes” after editing this section.

Section numbers are from *MasterFormat 1995 Edition*, with section numbers from *MasterFormat 2004 Edition* in parentheses. Delete version not required.

SECTION 03360 (03 35 33)

STAMPED CONCRETE

Specifier Notes: This section covers Brickform[®] stamped concrete for constructing new interior and exterior concrete slabs. Consult Brickform[®] for assistance in editing this section for the specific application.

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Stamped concrete.

1.2 RELATED REQUIREMENTS

Specifier Notes: Edit the following list of related sections as required. List other sections with work directly related to this section.

- A. Section 03300 (03 30 00) – Cast-in-Place Concrete.

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1.3 REFERENCE STANDARDS

Specifier Notes: List reference standards mentioned in this section, complete with designations and titles. This article does not require compliance with reference standards, but is merely a listing of those used.

- A. ASTM C 309 – Standard Specification for Liquid Membrane-Forming Compounds for Curing Concrete.
- B. ASTM C 979 – Standard Specification for Pigments for Integrally Colored Concrete.

1.4 SUBMITTALS

Specifier Notes: Edit submittal requirements as required. Delete submittals not required.

- A. Comply with Section 01330 (01 33 00) – Submittal Procedures.
- B. Product Data: Submit manufacturer's product data, including preparation and application instructions.
- C. Samples: Submit manufacturer's samples of standard colors.
- D. Manufacturer's Certification: Submit manufacturer's certification that materials comply with specified requirements and are suitable for intended application.
- E. Applicator's Project References: Submit applicator's list of successfully completed stamped concrete projects, including project name and location, name of architect, and type and quantity of materials applied.

1.5 QUALITY ASSURANCE

- A. Applicator's Qualifications:
 - 1. Applicator regularly engaged, for preceding 5 years, in application of stamped concrete of similar type to that specified.
 - 2. Employ persons trained for application of stamped concrete.

Specifier Notes: Edit the following paragraph for mock-ups as required for the project.

- B. Mock-ups:
 - 1. Construct Mock-ups of Stamped Concrete:
 - a. Use same materials and methods for use in the Work.
 - b. Location: Determined by Architect.
 - c. Minimum Size: 4 feet by 4 feet.
 - 2. Receive approval of mock-ups by Architect for patterns, colors, textures, finishing, curing, cleaning, sealing, special effects, and workmanship before application of stamped concrete.
 - 3. Approved Mock-ups:

- a. Standard for patterns, colors, textures, finishing, curing, sealing, special effects, and workmanship of stamped concrete.
- b. Retain through completion of Work for use as quality standard.

Specifier Notes: Edit pre-application meeting as required for the project.

- C. Pre-application Meeting:
 - 1. Convene pre-application meeting before start of application of stamped concrete.
 - 2. Require attendance of parties directly affecting work of this section, including:
 - a. Contractor.
 - b. Architect.
 - c. Landscape architect.
 - d. Applicator.
 - e. Manufacturer's representative.
 - 3. Review:
 - a. Mock-ups.
 - b. Materials.
 - c. Preparation.
 - d. Application.
 - e. Finishing.
 - f. Curing.
 - g. Cleaning.
 - h. Sealing.
 - i. Protection.
 - j. Coordination with other work.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Delivery and Acceptance Requirements: Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.
- B. Storage and Handling Requirements:
 - 1. Store and handle materials in accordance with manufacturer's instructions.
 - 2. Keep materials in manufacturer's original, unopened containers and packaging until application.
 - 3. Store materials in clean, dry area indoors.
 - 4. Store materials out of direct sunlight.
 - 5. Keep materials from freezing.
 - 6. Protect materials during storage, handling, and application to prevent contamination or damage.

1.7 AMBIENT CONDITIONS

- A. Apply materials when air and surface temperatures are between 55 degrees F (13 degrees C) and 80 degrees F (27 degrees C).
- B. Do not apply materials when rain, snow, or excessive moisture is expected during application or within 24 hours after application.

PART 2 PRODUCTS**2.1 MANUFACTURER**

- A. Brickform, 11061 Jersey Boulevard, Rancho Cucamonga, California 91730. Toll Free 800-483-9628. Phone 909-484-3399. Fax 909-484-3318. Website www.brickform.com. E-mail info@brickform.com.

2.2 MATERIALS

Specifier Notes: Include materials required for the specified stamped concrete. Delete materials not required.

- A. Concrete Topping and Hardener: Brickform "Color Hardener".

Specifier Notes: Specify the colors. Brickform "Color Hardener" is available in 40 standard colors. Consult Brickform for availability of custom colors and color matching.

1. Color: _____.

Specifier Notes: Specify the application rate for each color. Consult Brickform for recommended application rates.

- a. Application Rate: Minimum _____ pounds per 100 square feet.

Specifier Notes: If integrally colored concrete is required, specify liquid **or** dry integral concrete color. Consult Brickform for information regarding Brickform "Liquid Color" and Brickform "Powdered Color".

- B. Liquid Integral Concrete Color: Brickform "Liquid Color".
1. Compliance: ASTM C 979.

Specifier Notes: Specify the colors. Brickform "Liquid Color" is available in 24 standard colors. Consult Brickform for availability of custom colors and color matching.

2. Color: _____.

- C. Dry Integral Concrete Color: Brickform "Powdered Color".
1. Compliance: ASTM C 979.

Specifier Notes: Specify the colors. Brickform "Powdered Color" is available in 19 standard colors. Consult Brickform for availability of custom colors and color matching.

2. Color: _____.

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Specifier Notes: If concrete will be imprinted with colored bond breaker/antiquing release agent, specify Brickform “Antique Release”.

D. Colored Bond Breaker/Antiquing Release Agent: Brickform “Antique Release”.

Specifier Notes: Specify the colors. Brickform “Antique Release” is available in 40 standard colors to match or contrast with Brickform “Color Hardener”. Consult Brickform for availability of custom colors and color matching.

1. Color: _____.

Specifier Notes: Specify the application rate for each color. Consult Brickform for recommended application rates.

a. Application Rate: _____ pounds per 100 square feet.

E. Colorless Bond Breaker: Brickform “Liquid Release”.

F. Stamping Mats: Brickform “Creative Image Mats”.

Specifier Notes: Specify the model number and pattern for each style stamping mat required. Brickform “Creative Image Mats” are available in 19 standard patterns.

1. Model Number: TM-_____.
2. Pattern: _____.

G. Curing Compound:

1. Clear, non-yellowing, non-staining, breathable, UV stable.
2. Compliance: ASTM C 309.
3. Compatible with colored concrete.

H. Concrete Cleaner: Brickform “Antique Release/Efflorescence Remover”.

1. Biodegradable.

I. Sealer:

Specifier Notes: Specify **one** of the following **five** Brickform sealers to achieve the desired gloss and finish to the stamped concrete.

The three values for VOC for “Gem-Seal” and “Safety Seal” are the maximum VOC allowances for different parts of the country. Consult Brickform for the VOC value to specify for the project location.

1. High-Gloss Sealer: Brickform “Gem-Seal”.
 - a. Wet-look, UV-resistant, lacquer-based, acrylic, clear sealer.
 - b. VOC: [100 g/L] [400 g/L] [650 g/L].
2. High-Sheen Sealer: Brickform “Poly-Seal”.
 - a. Wet-look, UV-resistant, lacquer-based, acrylic, clear sealer.

- b. VOC: 650 g/L.
- 3. Low-Sheen Sealer with Traction Grip: Brickform "Safety-Seal".
 - a. Slip-resistant, UV-resistant, lacquer-based, acrylic, clear sealer.
 - b. VOC: [100 g/L] [400 g/L] [650 g/L].
- 4. Satin-Finish Sealer: Brickform "Satin-Seal".
 - a. Natural-look, water-based, acrylic, clear sealer.
 - b. VOC: 100 g/L.
- 5. High-Solids, High-Build Sealer: Brickform "Poly-Astic".
 - a. Wet-look, UV-resistant, high-build, Polyaspartic, clear sealer.
 - b. VOC: 0 g/L.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Examine surfaces to receive stamped concrete.
- B. Notify Architect of conditions that would adversely affect application or subsequent use.
- C. Do not begin preparation or application until unacceptable conditions are corrected.

3.2 PREPARATION

- A. Protection of In-Place Conditions: Protect adjacent surfaces, areas, adjoining walls, and landscaping from contact with stamped concrete materials.
- B. Preparation of Subgrade:
 - 1. Ensure subgrade is uniformly graded, compacted, and moistened.
 - 2. Ensure subgrade is free of standing water.
 - 3. Do not place concrete over soft, frozen, or muddy subgrade.
- C. Concrete:

Specifier Notes: Specify the section number for cast-in-place concrete. Specify the cement content. Edit the following paragraph for the project. Coordinate with the cast-in-place concrete section.

- 1. Specified in Section 03300 (03 30 00), unless otherwise specified in this section.
- 2. Cement Content: Minimum _____ sacks per cubic yard.
- 3. Slump: Maximum 4 inches.
- 4. Calcium Chloride: Do not use calcium chloride or admixtures containing calcium chloride.
- 5. Fine and Course Aggregates:
 - a. Non-reactive.
 - b. Free of deleterious material.

3.3 APPLICATION

- A. Apply stamped concrete materials in accordance with manufacturer's instructions at locations indicated on the Drawings.

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Specifier Notes: Include the following paragraph when specifying concrete topping and hardener.

- B. Concrete Topping and Hardener:
1. Apply concrete topping and hardener in accordance with manufacturer's instructions.
 2. Apply concrete topping and hardener to give complete and uniform coverage to concrete.
 3. Ensure uniform color results.

Specifier Notes: Include the following paragraph when specifying integrally colored concrete using liquid or dry integral concrete color.

- C. Integrally Colored Concrete: Design mix, batch, add colorant, place, finish, and cure concrete in accordance with integral concrete color manufacturer's instructions.

Specifier Notes: Include the following paragraph when specifying concrete to be imprinted with colored bond breaker/antiquing release agent.

- D. Colored Bond Breaker/Antiquing Release Agent: Release and imprint concrete with colored bond breaker/antiquing release agent in accordance with manufacturer's instructions.
- E. Colorless Bond Breaker:
1. Apply colorless bond breaker in accordance with manufacturer's instructions to bottom of stamping mats and on concrete surface, when concrete has reached plastic stage desirable for imprinting.
 2. Do not trowel or mix colorless bond breaker into plastic concrete surface.
- F. Stamping Mats:
1. Press stamping mats in accordance with manufacturer's instructions into concrete that has reached plastic stage desirable for imprinting.
 2. Use stamping mats to create patterns in concrete as indicated on the Drawings.
- G. Approved Mock-ups: Match approved mock-ups for patterns, colors, textures, finishing, curing, cleaning, sealing, special effects, and workmanship.

3.4 CURING

- A. Cure concrete in accordance with manufacturer's instructions.
- B. Apply curing compound in accordance with manufacturer's instructions.
- C. Do not cure concrete using materials or methods harmful to concrete surface, including:
1. Low-pressure or high-pressure steam.
 2. Burlap.
 3. Plastic sheeting.
 4. Membrane paper.
 5. Water misting.
 6. Sodium-silicone-type hardeners.

3.5 CLEANING

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- A. Clean concrete in accordance with manufacturer's instructions.
- B. Apply concrete cleaner in accordance with manufacturer's instructions to remove:
 - 1. Excess colored bond breaker/antiquing release agent.
 - 2. Efflorescence.
 - 3. Cement scale.
- C. Apply concrete cleaner before sealing concrete surface.

3.6 SEALING

- A. Seal concrete surfaces in accordance with manufacturer's instructions.
- B. Apply sealer to clean and dry concrete surfaces in accordance with manufacturer's instructions after concrete has cured a minimum of 28 days.
- C. Apply sealer uniformly over entire stamped concrete surface.
- D. Do not allow traffic on finished sealed surfaces for the following periods after application:
 - 1. Foot Traffic: Minimum 24 hours.
 - 2. Heavy Traffic: Minimum 72 hours.

3.7 PROTECTION

Specifier Notes: Specify **one** of the following **two** sentences.

- A. Interior Surfaces: Protect applied stamped concrete from damage during construction.
- B. Exterior Surfaces: Protect applied stamped concrete to ensure that, except for normal weathering, concrete will be without damage or deterioration at time of Substantial Completion.

END OF SECTION