

Butterfield Color® Cantera™ Vertical Wall Mix – Guide Specification

NOTE** This Section is based on systems of

NOTE** Butterfield Color®

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NOTE** This guide specification is intended to be used by a qualified construction specifier. It should not be used without appropriate modifications.

NOTE** Notes for review by specifier begin with “NOTE**.” Optional text requiring a selection is enclosed within brackets, e.g., “Color shall be [gray] [white].” Items requiring specifier input are indicated by a blank line enclosed within brackets, e.g., “Color: [_____].” Delete specifier notes and non-applicable optional text in final specification.

NOTE** Specification Section numbers and Section titles are according to The Construction Specifications Institute MasterFormat™ 1995 edition and indicated within brackets for MasterFormat™ 2004 edition.

GUIDE SPECIFICATION

NOTE ** Retain one Section number below and revise footer Section number to match.

SECTION 03375 [03 37 50] 09945 [09 97 33]

VERTICAL CONCRETE TEXTURING SYSTEM

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes: Vertical concrete texturing system.
- B. Related Sections:

NOTE** Delete subparagraphs below that are not required; add others as required.

1. Section 07900 – Joint Sealers [Section 07 92 00 – Joint Sealants].

1.2 SUBMITTALS

- A. Submit according to Conditions of the Contract and Division 1 Specification Sections.
- B. Product Data: For each product indicated.
- C. Samples for Initial Selection: Manufacturer's color charts.

- D. Sample Panels: [2 by 2 feet (610 by 610 mm)] [_____], to demonstrate finish, color, and texture of vertical concrete texturing system.
- E. Qualification Data: For Applicator and manufacturer specified in Quality Assurance Article, including names and addresses of completed projects, architects, and owners.

1.3 QUALITY ASSURANCE

- A. Applicator Qualifications: [Two] [_____] year's experience with projects of similar scope and quality.

NOTE ** Delete paragraph above or below.

- B. Applicator Qualifications: Trained or approved by manufacturer of vertical concrete texturing system.
- C. Manufacturer's Qualifications: Three year's experience manufacturing products required.
- D. Source Limitations: Obtain products from same source throughout Project.
- E. Field Samples: Locate at site and obtain approval before start of final work. Field samples shall be minimum [4 by 4 feet (1.2 by 1.2 m)] [_____].
 1. Demonstrate range of finishes and workmanship.
 2. Approved field samples set quality standards for comparison with remaining work.
 3. [Remove field samples when directed.] [Approved field samples may become part of the completed Work if undisturbed at completion of Project.]

NOTE ** Delete paragraph below if preinstallation conference is not required.

- F. Preinstallation Conference: Conduct conference at site to comply with requirements of Division 1 Section "Project Meetings."

1.4 DELIVERY, STORAGE AND HANDLING

- A. Deliver materials in original packaging with labels intact.
- B. Store in clean, dry and protected location, according to manufacturer's requirements.

1.5 PROJECT CONDITIONS

- A. Environmental Requirements: Comply with vertical concrete texturing system manufacturer's instructions.
 1. Do not apply vertical concrete texturing system if air temperature and concrete substrate temperature are not between 45 to 85 deg F before and during application.
 2. In hot weather, apply vertical concrete texturing system in early morning or when surfaces are shaded.
 3. Keep bagged products out of sunlight. Use cool water; do not use water from hot watering hoses.
 4. Protect vertical concrete texturing system from rain for 24 hours.

PART 2 - PRODUCTS

2.1 VERTICAL CONCRETE TEXTURING SYSTEM MATERIALS

- A. Vertical Concrete Texture Coat: Polymer-modified cementitious overlay designed for texturing stable, non-moving concrete vertical surfaces.
 - 1. Product: Butterfield Color® Cantera™ Vertical Wall Mix.
- B. Scratch Coat: Butterfield Color® T1000™ Fine Overlay.
- C. Primer: Butterfield Color® T1000™ Concrete Primer.
- D. Water: Potable.

NOTE **Delete Article below if vertical concrete texturing system is not integrally colored.

2.2 INTEGRALLY-COLORED OVERLAY MATERIALS

- A. Integral Concrete Colorant: ASTM C 979, factory-measured powdered mix, consisting of nonfading finely ground synthetic mineral-oxide coloring pigments and water reducing wetting agent.
 - 1. Product: Butterfield Color® Uni-Mix™ Color Pack.
 - 2. Colors: As selected by [Architect] [_____].

NOTE ** Delete subparagraph above if colors are selected and indicate Butterfield Color® T1000™ Color Pack number in subparagraph below. Add a schedule if multiple colors are required. Delete subparagraph below if colors are not selected.

- 3. Color: Butterfield Color® T1000™ Color Pack U[_____]CP.

NOTE **Delete Article below if vertical concrete texturing system is not stained. Butterfield Color® Decorative Concrete Staining Systems include Perma-Cast® Sierra Stain™, Elements™ Transparent Concrete Stain, and Renovatio™ Opaque Concrete Stain. See the Technical Documents at www.butterfieldcolor.com for Technical Data Sheets and MasterFormat Guide Specifications.

2.3 STAIN MATERIALS

- A. Stain Materials: As specified in Division 3 Section “Stained Concrete.”

NOTE **Delete Article below if vertical concrete texturing system is not stamped.

2.4 IMPRINTING TOOLS

- A. Stamp Mats: Semi-rigid polyurethane mats with projected texture and ridged underside capable of imprinting texture and joint patterns to plastic cementitious stampable overlay. Include texture skins matching stamp mat textures for texturing areas that cannot be reached with stamping mats.
 - 1. Product: Butterfield Color® Vertical Stamping Tools.
 - 2. Pattern: As selected by [Architect] [_____].

NOTE ** Delete subparagraph above if patterns are selected and indicate pattern number in subparagraph below. Add a schedule if multiple patterns are required. Delete subparagraph below if patterns are not selected.

3. Pattern: BWS [_____].

B. Detailing Tools: Aluminum detailing tools capable of imprinting joints and dressing stamped joints of plastic vertical concrete texturing system.

NOTE **Delete Article below if vertical concrete texturing system is not stamped.

2.5 RELEASE AGENTS

A. Liquid-Release Agent: Clear, evaporating formulation that facilitates release of stamp mats and texture skins from vertical concrete texturing system.

1. Product: Butterfield Color® Clear Liquid Release.

2.6 MIXING

A. Mixing Vertical Concrete Texturing System: Mix materials in accurate proportions and according to manufacturer's instructions.

1. Bulk Mixing: For machine mixing of vertical concrete texturing system, use a paddle mortar mixer.

NOTE **Delete paragraph below if vertical concrete texturing system will not be integrally colored.

B. Add Butterfield Color® Uni-Mix® Color Pack to water and then mix with texture coat according to manufacturer's instructions.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrate for compliance with requirements.

B. Do not proceed with vertical concrete texturing system application until unacceptable conditions are corrected.

3.2 SUBSTRATE PREPARATION

A. Surface Preparation, General: Remove potential bond breakers, such as grease, oil, silicone, paint, sealant, curing and sealing compounds, drywall taping compound, etc. Repair damaged and cracked substrates.

B. Concrete and Masonry:

1. New concrete shall be fully cured and free of form release compounds, sealing compounds, laitance, or dusting.

2. Repair bugholes, rock pockets, and spalls with Butterfield Color® T1000™ Fine Overlay and allow to fully cure before application of primer and vertical concrete texturing system.
 3. Prepare existing concrete or masonry by high-pressure washing, grinding, chip hammering, or sandblasting.
 - a. Grind fins and other high points flush with adjacent surfaces.
 - b. Do not use detergents or soaps that leave a residue.
 - c. Do not acid etch.
 4. Remove weak, delaminated, or unsound concrete substrates down to sound concrete.
 5. Remove and repair damaged or loose mortar between masonry units.
 6. Repair random cracks.
 7. Map out locations of existing control joints before applying vertical concrete texturing system.
- C. Cement Board, Gypsum Board, and Plywood:
1. Repair or replace damaged gypsum board substrates before applying fiberglass mesh tape or wire mesh.
 2. Apply fiberglass mesh tape over joints between boards, at inside and outside corners, and over screw heads.
 3. Mechanically fasten wire mesh to substrates so it does not move, sag, or bulge from surface.
- D. Allow surfaces to dry thoroughly prior to application of primer.

3.3 PRIMING SUBSTRATES

- A. Apply an even coat of primer from two directions, free of holidays, to prepared substrates using a paint roller or bristle brush. Protect adjacent surfaces from overspray or splash.
1. Do not apply primer to damp substrates.
 2. If primer application contains bubbles or pinholes, apply a second application of primer.
 3. Apply a second application of primer of rough or porous concrete substrates.
- B. Allow concrete primer to dry tack free prior to application of vertical concrete texturing system. If primed substrates become wet, reapply primer.
- C. Prevent contamination of primed surfaces by dirt or other deleterious materials or conditions.
- D. Apply scratch coat system within 24 hours of concrete primer application.

3.4 SCRATCH COAT APPLICATION

- A. After primer has dried, apply a thin scratch coat of fine overlay material to surface. Adjust mix water so scratch coat does not run when applied to vertical surface.
- B. Apply fine overlay by trowel or hopper gun to a thickness of 1/16- to 1/8-inch.

NOTE **Delete subparagraph below if no concrete or masonry substrates.

1. Fill existing substrate joints and nonmoving random cracks with scratch coat.

- C. Horizontally rake scratch coat with scratcher trowel or scarifier to create a surface profile. Do not rake through scratch coat. Allow scratch coat to cure eight hours before applying vertical concrete texturing system.
- D. Reapply an even coat of concrete primer to scratch complying with Article 3.3.

3.5 TEXTURE COAT APPLICATION

NOTE **Delete optional text below if vertical concrete texturing system is not stamped.

- A. Trowel Application: Distribute texture coat by pool trowel and mortarboard to a uniform thickness of 1/4 inch[, as required to match depth of stamp mat grout lines, but not to exceed 1 inch]. Trowel to a smooth surface.
- B. Maintain a wet edge when applying texture coat to avoid cold joints.
- C. Do not overwork texture coat with pool trowel. Do not hard trowel texture coat. Do not add water to surface once application has begun. Do not retemper texture coat.
- D. Clean tools frequently to avoid build up of texture coat. Wipe trowel dry before working surfaces.
- E. When required thickness will not stay on surface, apply texture coat in multiple layers to achieve required thickness. Do not allow first application to set before final application.

NOTE **Delete Article below if vertical concrete texturing system is not stamped.

3.6 STAMPING

- A. Stamp texture coat surfaces according to manufacturer's instructions. Plan stamp layout prior to application of stamps.
- B. Liquid-Release Agent Application: Apply a liberal coat of-liquid release agent to texture coat when set sufficiently to achieve a clean impression.
- C. Stamping:
 - 1. Apply a liberal coat of liquid-release agent to stamping tools, texture skins, and mats, before stamping. Reapply liquid-release agent to stamping tools, texture skins, and mats, during the imprinting process to eliminate texture coat sticking.
 - 2. Stamp texture coat within manufacturer's recommended set-time limitations.
 - 3. Press imprinting tool into texture coat until there is a uniform distribution of material along imprinting tool surface, and deepest part of imprinting tool contacts texture coat. Remove imprinting tools from texture coat immediately by pulling straight out from the surface.
 - 4. Stamp inside corners, and surfaces unable to be imprinted by stamping tools, with texture skins.
 - 5. Use stamp tools to imprint grout lines at edges and surfaces unable to be imprinted with stamp mats.
 - 6. Carve texture coat to remove squeeze, imperfections, and repair jointing, between 6 and 24 hours after application. Smooth or contour surface imperfections and joint shapes with 1- to 3-inch wide paint brushes dipped in water.

NOTE **Delete Article below if vertical concrete texturing system is not carved.

3.7 CARVING

- A. Carve according to manufacturer's instructions. Begin carving between 6 and 24 hours after texture coat application.
- B. Do not use liquid release agent if texture coat will only be carved by hand.

3.8 CURING

- A. Cure according to manufacturer's instructions.

3.9 JOINTS

- A. Recut existing control joints full depth, and matching existing width, within 14 hours after placement at 70 deg F, when vertical concrete texture system has gained adequate strength to sawcutting does not damage surfaces.

NOTE **Delete Article below if vertical concrete texturing system is not stained.

3.10 STAINING

- A. Apply stain as specified in [Division 3 Section "Stained Concrete."] [Division 9 Section "Concrete Staining."]

3.11 REPAIRS, CLEANING, AND PROTECTION

- A. Repair damaged vertical concrete texturing system according to manufacturer's instructions.
- B. Clean spillage and soiling from adjacent construction according to manufacturer's instructions.
- C. Protect vertical concrete texturing system from damage or deterioration until date of Substantial Completion.

END OF SECTION

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