



SECTION 03350

CONCRETE FINISHES

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Concrete Overlayments.
- B. Concrete Faux Finishes.
- C. Concrete Coatings.
- D. Concrete Colorants.
- E. Concrete Prep Agents and Associated Products.

1.2 RELATED SECTIONS

- A. Section 02751 - Portland Cement Concrete Paving.
- B. Section 03360 - Stamped Pattern Concrete Paving.
- C. Section 03300 - Cast-in-place Concrete.
- D. Section 03330 - Architectural Concrete.
- E. Section 03361 - Stamped Concrete Paving.
- F. Section 03365 - Exposed Aggregate Concrete.
- G. Section 07900 - Joint Sealers: Colored sealants for Joints.

1.3 REFERENCES

- A. ASTM C 979 - Standard Specification for Pigments for Integrally Colored Concrete.
- B. ASTM C 39 – Standard Specification for compressive strength of concrete specimens
- C. ASTM C 1315 - Standard Specification for Liquid Membrane-Forming Compounds Having Special Properties for Curing and Sealing Concrete.

1.4 SUBMITTALS

- A. Submit under provisions of Section 01300.

- B. Product Data: Manufacturer's data sheets on each product to be used, including:
  - 1. Preparation instructions and recommendations.
  - 2. Storage and handling requirements and recommendations.
  - 3. Installation methods.
- C. Shop Drawings: Provide plan, section, elevation and perspective drawings as required to properly convey the installation procedures required to produce optimum results. Coordinate locations of Work areas with the Contract Drawings.
- D. Selection Samples: For each finish product specified, two complete sets of color chips representing manufacturer's full range of available colors and patterns.
- E. Verification Samples: For each finish product specified, two samples, minimum size 6 inches (150 mm) square, representing actual product, color, and patterns.

#### 1.5 QUALITY ASSURANCE

- A. Manufacturer Qualifications: All primary products specified in this section will be supplied by a single manufacturer with a minimum of eight (8) years experience.
- B. Installer Qualifications: All products listed in this section are to be installed by a single installer with a minimum of five (5) years demonstrated experience or manufacturer certification in installing products of the same type and scope as specified or installer trained and certified by manufacturer of which a current list can be supplied.
- C. Mock-Up: Provide a mock-up for evaluation of surface preparation techniques and application workmanship.
  - 1. Finish areas designated by Architect.
  - 2. Do not proceed with remaining work until workmanship, color, and sheen are approved by Architect.
  - 3. Refinish mock-up area as required to produce acceptable work.

#### 1.6 DELIVERY, STORAGE, AND HANDLING

- A. Store products in manufacturer's unopened packaging until ready for installation.
- B. Store and dispose of hazardous materials, and materials contaminated by hazardous materials, in accordance with requirements of local authorities having jurisdiction.

#### 1.7 PROJECT CONDITIONS

- A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

#### 1.8 WARRANTY

- A. At project closeout, provide to Owner or Owners Representative an executed copy of the manufacturer's standard limited warranty against manufacturing defect, outlining its terms, conditions, and exclusions from coverage.

## PART 2 PRODUCTS

### 2.1 MANUFACTURERS

- A. Acceptable Manufacturer: Architectural Enhancements; 475 Annandale Blvd., PO Box 1124, Annandale, MN 55302. ASD. Tel: (320) 274-6909. Fax: (320) 274-6919. Email: info@aenhancements.net. Web: <http://www.aenhancements.net>
- B. Substitutions: Not permitted.
- C. Requests for substitutions will be considered in accordance with provisions of Section 01600.

### 2.2 HORIZONTAL CONCRETE OVERLAYMENTS

- A. Tru Finish: Thin cementitious overlay applied as a base coat, spray down, trowel down or similar finish.
  - 1. Application Thickness (WFT): 1/32 inch to 1/8 inch (0.75mm - 3mm).
- B. Tru Stamp: Cementitious overlay for stamping and texturing to create an authentic brick, stone or slate appearance.
  - 1. Application Thickness (WFT): 1/4 inch - 3/8 inch (6mm - 10mm).
- C. Tru Cement: Cementitious patching coat for creation of a durable quick curing patch.
  - 1. Application Thickness (WFT): 1/4 inch - 2 inch (6mm - 51mm).
- D. Color/Finish:
  - 1. Standard Color: Gray.
  - 2. Standard Color: White.
  - 3. Integral Color: Midnight.
  - 4. Integral Color: Brown.
  - 5. Integral Color: Caramel.
  - 6. Integral Color: Dark Chocolate.
  - 7. Integral Color: Mahogany.
  - 8. Integral Color: Brick Red.
  - 9. Integral Color: Dark Buff.
  - 10. Integral Color: Butterscotch.
  - 11. Integral Color: Coffee.
  - 12. Integral Color: Copper.
  - 13. Integral Color: Coral Red.
  - 14. Integral Color: Buff.
  - 15. Integral Color: Gold.
  - 16. Integral Color: Merlot.
  - 17. Integral Color: Pueblo Brown.
  - 18. Integral Color: Shadow.
  - 19. Integral Color: Yellowstone.
  - 20. Integral Color: Almond.
  - 21. Integral Color: Autumn.
  - 22. Integral Color: Berry.
  - 23. Integral Color: Buckskin.
  - 24. Integral Color: Camel.
  - 25. Integral Color: Canyon.
  - 26. Integral Color: Cedar.
  - 27. Integral Color: Clay.

28. Integral Color: Graphite.
29. Integral Color: Limestone.
30. Integral Color: Nutmeg.
31. Integral Color: Oak.
32. Integral Color: Sierra.
33. Integral Color: Tan.
34. Integral Color: Terra Cotta.
35. Integral Color: Boulder.
36. Integral Color: Cinnamon.
37. Integral Color: Hay.
38. Integral Color: Latte.
39. Integral Color: Maple.
40. Integral Color: Mission.
41. Integral Color: Mocha.
42. Integral Color: Sand.
43. Integral Color: Sandstone Buff.
44. Integral Color: Silver.
45. Integral Color: Wheat.
46. Integral Color: Celery.
47. Integral Color: Slate Green.
48. Topical Color with Stain: Translucent Sunset.
49. Topical Color with Stain: Translucent Mocha.
50. Topical Color with Stain: Translucent Brown.
51. Topical Color with Stain: Translucent Mystic-Tan.
52. Topical Color with Stain: Translucent Cola.
53. Topical Color with Stain: Translucent Green.
54. Topical Color with Stain: Translucent Midnight.
55. Topical Color with Stain: Translucent Copper-Green.
56. Topical Color with Stain: Translucent Aqua.
57. Topical Color with Stain: Translucent Authentic-Tan.
58. Topical Color with Water Based Stain: Opaque Black
59. Topical Color with Water Based Stain: Opaque White
60. Topical Color with Water Based Stain: Opaque Brown
61. Topical Color with Water Based Stain: Opaque Pink
62. Topical Color with Water Based Stain: Opaque Light Blue
63. Topical Color with Water Based Stain: Opaque Purple
64. Topical Color with Water Based Stain: Opaque Light Green
65. Topical Color with Water Based Stain: Translucent Gray
66. Topical Color with Water Based Stain: Translucent Red
67. Topical Color with Water Based Stain: Translucent Green
68. Topical Color with Water Based Stain: Translucent Blue
69. Topical Color with Water Based Stain: Translucent Turquoise
70. Topical Color with Water Based Stain: Translucent Yellow
71. Topical Color with Water Based Stain: Translucent Terra Cotta
72. Topical Color with Water Based Stain: Translucent Dark Green
73. Topical Color with Water Based Stain: Translucent Light Brown
74. Topical Color with Water Based Stain: Translucent Cola
75. Topical Color with Water Based Stain: Translucent Brown

## 2.3 VERTICAL OVERLAYS AND FAUX FINISHES

- A. Tru Finish: Thin cementitious overlay applied as a base coat, spray-on, trowel-on or similar

finish.

1. Application Thickness (WFT): 1/32 inch to 1/8 inch (0.75mm - 3mm).
- B. Luster/Micro: Fine cementitious overlay used for ultra fine troweled finishes in interior or exterior applications.
1. Application Thickness (WFT): 1/32 inch to 1/16 inch (0.75mm - 1.5mm).
- C. Vertex: Award-winning vertical overlay that is lightweight, and can be used to create authentic textures at a fraction of the cost of the real article.
1. Application Thickness (WFT): 1/4 inch to 4 inches (6mm - 102mm).
- D. Tru Sculpt: Lightweight cementitious overlay that is carvable and used to create an authentic brick, stone or slate appearance on vertical applications.
1. Application Thickness (WFT): 1/4 inch to 4 inches (6mm - 102mm).
- E. Tamarillo: Fine cementitious overlay for resurfacing and creating architectural, decorative, and faux finishes on vertical substrates in interior or exterior applications
1. Application Thickness (WFT): 1/8 inch to 1/4 inch (3mm - 6mm).
- F. Mediterranean Finish: Fine cementitious overlay used for skip trowel, tile, and European textures in interior or exterior applications.
1. Application Thickness (WFT): 1/16 inch to 1/4 inch (0.75mm - 6mm).
- G. Color/Finish:
1. Standard Color: Gray.
  2. Standard Color: White.
  3. Integral Color: Midnight.
  4. Integral Color: Brown.
  5. Integral Color: Caramel.
  6. Integral Color: Dark Chocolate.
  7. Integral Color: Mahogany.
  8. Integral Color: Brick Red.
  9. Integral Color: Dark Buff.
  10. Integral Color: Butterscotch.
  11. Integral Color: Coffee.
  12. Integral Color: Copper.
  13. Integral Color: Coral Red.
  14. Integral Color: Buff.
  15. Integral Color: Gold.
  16. Integral Color: Merlot.
  17. Integral Color: Pueblo Brown.
  18. Integral Color: Shadow.
  19. Integral Color: Yellowstone.
  20. Integral Color: Almond.
  21. Integral Color: Autumn.
  22. Integral Color: Berry.
  23. Integral Color: Buckskin.
  24. Integral Color: Camel.
  25. Integral Color: Canyon.
  26. Integral Color: Cedar.
  27. Integral Color: Clay.
  28. Integral Color: Graphite.
  29. Integral Color: Limestone.

30. Integral Color: Nutmeg.
31. Integral Color: Oak.
32. Integral Color: Sierra.
33. Integral Color: Tan.
34. Integral Color: Terra Cotta.
35. Integral Color: Boulder.
36. Integral Color: Cinnamon.
37. Integral Color: Hay.
38. Integral Color: Latte.
39. Integral Color: Maple.
40. Integral Color: Mission.
41. Integral Color: Mocha.
42. Integral Color: Sand.
43. Integral Color: Sandstone Buff.
44. Integral Color: Silver.
45. Integral Color: Wheat.
46. Integral Color: Celery.
47. Integral Color: Slate Green.
48. Topical Color with Stain: Translucent Sunset.
49. Topical Color with Stain: Translucent Mocha.
50. Topical Color with Stain: Translucent Brown.
51. Topical Color with Stain: Translucent Mystic-Tan.
52. Topical Color with Stain: Translucent Cola.
53. Topical Color with Stain: Translucent Green.
54. Topical Color with Stain: Translucent Midnight.
55. Topical Color with Stain: Translucent Copper-Green.
56. Topical Color with Stain: Translucent Aqua.
57. Topical Color with Stain: Translucent Authentic-Tan.
58. Topical Color with Water Based Stain: Opaque Black
59. Topical Color with Water Based Stain: Opaque White
60. Topical Color with Water Based Stain: Opaque Brown
61. Topical Color with Water Based Stain: Opaque Pink
62. Topical Color with Water Based Stain: Opaque Light Blue
63. Topical Color with Water Based Stain: Opaque Purple
64. Topical Color with Water Based Stain: Opaque Light Green
65. Topical Color with Water Based Stain: Translucent Gray
66. Topical Color with Water Based Stain: Translucent Red
67. Topical Color with Water Based Stain: Translucent Green
68. Topical Color with Water Based Stain: Translucent Blue
69. Topical Color with Water Based Stain: Translucent Turquoise
70. Topical Color with Water Based Stain: Translucent Yellow
71. Topical Color with Water Based Stain: Translucent Terra Cotta
72. Topical Color with Water Based Stain: Translucent Dark Green
73. Topical Color with Water Based Stain: Translucent Light Brown
74. Topical Color with Water Based Stain: Translucent Cola
75. Topical Color with Water Based Stain: Translucent Brown

## 2.4 CONCRETE COUNTERTOP PRODUCTS

- A. Tru Top Overlay: Fine cementitious overlay used for creating counter and table tops. For use over new or existing substrates and can be customized with colors and additives to create designs.

1. Application Thickness (WFT): 1/16 inch to 3/8 inch (1.5mm - 10mm) when overlaid over existing substrate.
- B. Tru Top Cast: Fine cementitious mix used for creating counter and table tops. Creates the beauty of a concrete countertop with a mix that is specially designed for poured cast-in-place or pre-cast applications. Can be customized with colors and additives to create designs or themes.
1. Application Thickness (WFT): 1 1/2 inch to 2 1/2 inch (39mm - 64mm) when poured into molds.

## 2.5 CONCRETE SEALERS

- A. Cure n' Seal: Pure solvent based acrylic that forms a tough coating to seal, beautify, and protect concrete and stone surfaces. For application over cured concrete, natural stone, and stained & colored concrete.
1. Color: Clear.
  2. Solids: 25 percent.
  3. VOC Limits: 400 g/l.
- B. Tru Sealer: Pure solvent based acrylic that forms a tough coating to seal, beautify, and protect concrete and stone surfaces. For application over cured concrete, natural stone, and stained & colored concrete.
1. Color: Clear.
  2. Solids: 30 percent.
  3. VOC Limits: 700 g/l.
- C. Tru Extreme Sealer (WB): Water-based sealer for use where a flammable, solvent-based sealer is not practical or desired. Features low odor and very low VOC's and is safe to use indoors.
1. Color: Clear.
  2. Solids: 20 percent.
  3. VOC Limits: 0 g/l.

## 2.6 CONCRETE EPOXY COATINGS

- A. Tru Industrial: Two-component, self leveling, industrial coating.
1. Color: Clear.
  2. Application Thickness (WFT): 6 mils to 20 mils.
  3. Solids: 100 percent.
  4. VOC Limits: 0 g/l.
- B. Tru SunGuard: Two-component, self leveling, 100 percent solids industrial coating with UV protection.
1. Color: Clear.
  2. Application Thickness (WFT): 6 mils to 20 mils.
  3. Solids: 100 percent.
  4. VOC Limits: 0 g/l.

## 2.7 WATER BASED URETHANE CONCRETE COATINGS

- A. WB UreGuard: Single component, moderately chemical resistant urethane coating for interior applications.

1. Color/Finish: AE3200 - Clear/Gloss Finish.
2. Color/Finish: AE3210 - Clear/Satin Finish.
3. Application Thickness (WFT): 2 coats at 4 mils each.
4. Solids: 29 percent.
5. VOC Limits: 296 g/l.

## 2.8 CONCRETE COLORANTS

- A. Epoxy Colorants: Colorant to be added to a clear epoxy.
  1. Color: Black.
  2. Color: Granite Grey.
  3. Color: Oxford Grey.
  4. Color: Silver Grey.
  5. Color: Base White.
  6. Color: Hanger White.
  7. Color: Ivory White.
  8. Color: Sand Beige.
  9. Color: Safety Yellow.
  10. Color: Forest Green.
  11. Color: Mediterranean Blue.
  12. Color: Tile Red.
  13. Application Thickness (WFT): 6 mils to 20 mils.
  14. Solids: 100 percent.
  15. VOC Limits: 0 g/l.
  
- B. Metallic Colorants: Brilliant metallic colorant in a mica powder suspended within AE Sealer or AE Epoxies.
  1. Color: Bronze Luster.
  2. Color: Copper Shine.
  3. Color: Pearl Sheen.
  4. Color: Silver Splendor.
  5. Color: Gold Rush.
  
- C. Concrete Stains – Reactive (Acid) Tru-Stain - Deep penetrating, permanent, concrete stain for interior or exterior use. Stain is UV stable after sealing. Available in 10 translucent colors.
  1. Color: Sunset.
  2. Color: Mocha.
  3. Color: Brown.
  4. Color: Mystic-Tan.
  5. Color: Cola.
  6. Color: Green.
  7. Color: Midnight.
  8. Color: Copper-Green.
  9. Color: Aqua.
  10. Color: Authentic-Tan.
  
- D. Concrete Stains - Mineral Based (Neutral Stain): Deep penetrating, permanent, concrete stain for interior or exterior use. Stain is UV stable after sealing. Has coloring characteristics like acid base stains but requires no neutralizing or rinsing. Available in 10 translucent colors.
  1. Color: Sunset.
  2. Color: Mocha.

3. Color: Brown.
4. Color: Mystic-Tan.
5. Color: Cola.
6. Color: Green.
7. Color: Midnight.
8. Color: Copper-Green.
9. Color: Aqua.
10. Color: Authentic-Tan.

E. Concrete Stains - Water Based: WB Tru-Stain - Non-acid with polymer bonded nano-pigments, penetrating, UV stable concrete stain for interior or exterior use.

1. Opaque Colors:
  - a. Color: Black.
  - b. Color: White.
  - c. Color: Brown.
  - d. Color: Pink.
  - e. Color: Light Blue.
  - f. Color: Purple.
  - g. Color: Light Green.
2. Translucent Colors:
  - a. Color: Gray.
  - b. Color: Red.
  - c. Color: Green.
  - d. Color: Blue.
  - e. Color: Turquoise.
  - f. Color: Yellow
  - g. Color: Terra Cotta.
  - h. Color: Dark Green.
  - i. Color: Light Brown
  - j. Color: Cola.
  - k. Color: Brown.

F. Integral Colorants: Colorant for ready mix concrete.

1. Color: Midnight.
2. Color: Brown.
3. Color: Caramel.
4. Color: Dark Chocolate.
5. Color: Mahogany.
6. Color: Brick Red.
7. Color: Dark Buff.
8. Color: Butterscotch.
9. Color: Coffee.
10. Color: Copper.
11. Color: Coral Red.
12. Color: Buff.
13. Color: Gold.
14. Color: Merlot.
15. Color: Pueblo Brown.
16. Color: Shadow.
17. Color: Yellowstone.
18. Color: Almond.
19. Color: Autumn.

20. Color: Berry.
21. Color: Buckskin.
22. Color: Camel.
23. Color: Canyon.
24. Color: Cedar.
25. Color: Clay.
26. Color: Graphite.
27. Color: Limestone.
28. Color: Nutmeg.
29. Color: Oak.
30. Color: Sierra.
31. Color: Tan.
32. Color: Terra Cotta.
33. Color: Boulder.
34. Color: Cinnamon.
35. Color: Hay.
36. Color: Latte.
37. Color: Maple.
38. Color: Mission.
39. Color: Mocha.
40. Color: Sand.
41. Color: Sandstone Buff.
42. Color: Silver.
43. Color: Wheat.
44. Color: Celery.
45. Color: Slate Green.

G. Concrete Hardener: Colorant for ready mix concrete.

1. Color: White.
2. Color: Adobe Buff.
3. Color: Pewter.
4. Color: Slate Blue.
5. Color: Smokey Grey.
6. Color: Desert Buff.
7. Color: Cactus Green.
8. Color: Rancho Red.
9. Color: Saddle Tan.
10. Color: Rawhide.
11. Color: Gunsmoke.
12. Color: Carefree Tan.
13. Color: Copper Canyon.
14. Color: Coach House Brown.
15. Color: Caribou Brown.

H. Concrete Powder Release Colorant: Colorant for ready mix concrete.

1. Color: Dark Brown.
2. Color: Light Brown.
3. Color: Light Grey.
4. Color: New Dark Brown.
5. Color: Smokey Grey.
6. Color: Desert Buff.
7. Color: Cactus Green.
8. Color: Rancho Red.

9. Color: Saddle Tan.
10. Color: Rawhide.
11. Color: Gunsmoke.
12. Color: Carefree Tan.
13. Color: Copper Canyon.
14. Color: Coach House Brown.
15. Color: Caribou Brown.

## 2.9 CONCRETE PREP AGENTS AND ASSOCIATED PRODUCTS

- A. Tru Gel: Liquid additive for mineral, reactive (acid) and water-based stains to create a thicker consistency. Ideal for vertical staining or when fine detail requires separation of colors.
- B. Tru Pro: Water-based, non-flammable degreaser and cleaner for use on all interior or exterior surfaces that can be cleaned with water.
  1. VOC Limits: 500 g/l.
- C. Tru Dissolve: Concrete de-bonding agent which reverses the molecular bonding action of cement, turning it back to a loose mix of sand and aggregate. Ideal for cleaning tools with cement build up.
  1. VOC Limits: 0 g/l.
- D. Tru Gon: Non-flammable, water based glue and mastic remover for softening and removal of carpet adhesives and similar glue deposits.
- E. Tru Blue: Penetrating concrete cleaner and renovator that quickly dissolves lime deposits, scale, rust, mortar, algae and mud stains from concrete in interior or exterior applications.
  1. VOC Limits: 0 g/l.
- F. Tru Strip: High impact, emulsifiable coating remover for use on substrates such as concrete floors and paving blocks to quickly remove sealers in interior or exterior applications.
  1. VOC Limits: 600 g/l.
- G. Tru Peel: Nonflammable, water-based coating remover for use on substrates such as concrete floors and paving blocks to safely remove acrylic sealers.
  1. VOC Limits: 229 g/l.
- H. Tru Polymer: A liquid bonding agent to be used in conjunction with cementitious overlays.
  1. Coverage: 150 - 250 square feet (13.9 - 23.2 sm) per gallon.

## PART 3 EXECUTION

### 3.1 EXAMINATION

- A. Do not begin installation until substrates have been properly prepared.
- B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

### 3.2 PREPARATION

- A. Clean surfaces thoroughly prior to installation.
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

### 3.3 INSTALLATION

- A. Install in accordance with manufacturer's instructions.

### 3.4 PROTECTION

- A. Protect installed products until completion of project.
- B. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION