

SECTION 030130.61
FORMATTED SPECIFICATION
SUNDEK® SUNCANVAS-MICRO-TOPPING™

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Installation of the SUNDEK® SUNCANVAS TOPPING System including, substrate preparation, substrate repairs, materials, and installation process.
- B. Repair of vertical and horizontal surfaces.

1.2 RELATED SECTIONS

- A. Section 03300 - Cast-In-Place Concrete:
- B. Section 02751 - Portland Cements Concrete Paving.
- C. Section 03925 - Concrete Resurfacing and Rehabilitation.
- D. Section 039000- Exterior Overlay Maintenance.

1.3 REFERENCES

- A. ANSI A118.4 - Specifications for Latex Portland Cement Mortar.
- B. ASTM D1242 – Standard Test Methods for Abrasion Resistance.
- C. ASTM D570 – Standard Test Methods for Water Absorption.
- D. ASTM D-2047-11 Standard Specification for Coefficient of Friction.
- E. ANSI A 326.3 Dynamic Coefficient of Friction.
- F. ASTM D229 – Standard Test Methods for Chemical Resistance by 12 Reagents.
- G. ICRI 310.2R-2013 Selecting & specifying concrete surface preparation for sealers, coatings, polymer overlays, and concrete repair.

1.4 SUBMITALS

- A. Product Data: Manufacturer's data sheets on each product to be used, including:
- B. Shop Drawings.
- C. Selection Samples: For each finish product specified, a complete set of color cards representing manufacturer's full range of available colors and patterns.
- D. Verification Samples: For each finish product specified, two samples, minimum size 6 inches (150 mm) square, represent actual product, color, and patterns.

1.5 QUALITY ASSURANCE

- A. Manufacturer Qualifications.

- B. Installer Qualifications. Installer must be a licensed SUNDEK® installation contractor with 5 years' experience in similar projects.
- D. 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. Completed mock-up if acceptable may become part of the finished work.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Properly label and identify all containers as Sundek materials.
- B. Deliver and store all materials to prevent damage to product and containers.
- C. Store all material in a clean, dry location where temperatures are maintained between 40 and 90 degrees Fahrenheit.
- D. Comply with manufacture's Safety Data Sheets (SDS) for delivery, storage and handling of products.

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.
- B. Exterior Surfaces: Do not apply materials in wet weather.

PART 2 – PRODUCTS

2.1 MANUFACTURER

Acceptable Manufacturer: Sundek Products USA, Inc., which is located at: 616 E. AVENUE J, GRAND PRAIRIE, TX 75050

USA. Toll Free Tel: 877-478-6335; Email: [request info: product@sundek.com](mailto:product@sundek.com);

Web: www.sundek.com;

2.2 SUNDEK® PRODUCTS INC. SUNCANVAS.

Two component cement based micro-topping: Sundek SUNCANVAS as manufactured by SUNDEK® Products Inc.

2.3 ACCEPTABLE MATERIALS

- A. Sundek SUNCANVAS Regular grade.
- B. Sundek SUNCANVAS Smooth grade.
- F. Sundek 214 Concentrated Additive: Vinyl acetate emulsion with 48% solids content.
- G. Sundek H2O water borne staining system.
- H. Sundek Finish Coat Clear: Optional material based on project requirements.
- I. Sundek ECO-Clear high performance aliphatic polyurethane.

2.4 SYSTEM INTEGRITY

- A. Sundek SUNCANVAS is an engineered system and requires all components to perform as specified. No substitutions are permitted. Any substitution of products or components will void any warranty expressed or otherwise implied.

PART 3 – EXECUTION

3.1 EXAMINATION

- A. Concrete shall be structurally sound, with required reinforcements and footings. Place and finish concrete in a skilled and workmanlike manner.
- B. Install control joints throughout concrete as required to prevent cracking.
- C. All joints in the substrate must be honored with the SUNCANVAS installation.
- D. Provide surface drainage at all points no less than 1/4 inch per linear foot. Drainage correction is not guaranteed in the Sundek SUNSTONE installation.
- E. Refer to section 033000, cast in place concrete specification.

3.2 PREPARATION

- A. Clean concrete surface with high-pressure power washer. Surface shall be a CSP-1-2 according to ICRI 310.2R-2013. A floor grinder may be used if a dry preparation method is preferred.
- B. Remove dirt, grease, oil, curing compounds or other foreign substances, which may prevent proper bonding. Any demolition of existing coatings may require mechanical removal to insure surface bonding.
- C. Provide protective masking at all adjacent areas not to be coated.
- D. Repair cracks, surface damage and any corrective measures on concrete.
- E. Some cracking may be incorporated into the joint pattern of the application.

3.3 PROJECT DETAILS

- A. Specific project details will be as follows.
- B. Finished texture shall be SUNDEK SUNCANVAS.
- C. Primary color shall be "INSERT COLOR HERE".
- D. Secondary color shall be (optional) "INSERT COLOR HERE"

INTENTIONALLY LEFT BLANK

3.4 APPLICATION

- A. Spray or roll Sundek Primer/Additive on area to be coated. Allow to dry and become transparent. Surface should be tacky when applying 1st coat of material.
- B. SUNDEK SUNCANVAS Regular grade.
 - 1. Mix Sundek SUNCANVAS regular grade material as directed by the TDS sheet. using mechanical agitation for 3 minutes until smooth.
 - 2. SUNSTONE mixes with 10 quarts of diluted polymer.
 - 3. Apply the material using a magic trowel or squeegee. Backer rod can be used to keep the material from filling the joints.
 - 4. Allow to dry completely, then sand using a screen on a floor machine.
 - 5. Vacuum any loose dust or particles form the surface.
- C. SUNDEK SUNCANVAS Smooth grade.
 - 1. Mix Sundek SUNCANVAS smooth grade material as directed by the TDS sheet. using mechanical agitation for 3 minutes until smooth.
 - 2. SUNCANVAS mixes with 10 quarts of diluted polymer.
 - 3. Apply the SUNSCANVAS material using a hand trowel. Trowel the floor smooth or for the specified texture according to the mock-up panel.
 - 4. Allow to dry completely.
- D. SUNDEK SUNCANVAS COLOR APPLICATION.
 - 1. Allow the application to dry for 24 hours before staining with Sundek H2O water borne stain. See the product TDS for complete details.
 - 2. After the final staining has been completed the joints may be grouted using a commercial joint sealant.
 - 3. The application may be sealed with the appropriate sealer after the color has been approved.

3.5 PROTECTION

- A. Protect all phases of Sundek SUNSCANVAS from moisture, freezing and foot traffic for 24 hours. Prevent vehicular traffic for 72 hours from finish of application.
- B. Owner or General Contractor will provide protection for finished Sundek SUNCANVAS Finish from damage by others until acceptance by responsible party.

3.6 MAINTENANCE

- A. A professional acrylic wax can be used for interior floors.
- B. Mop or auto-scrub the surface as needed.
- C. A mild solution using a neutral pH cleaner may be used as needed for tougher stains.
- D. Refer to the SUNDEK Maintenance specification for exterior overlays for more detailed instructions. Section 03 90 00.
- E. Contact your Sundek dealer for further assistance.

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END OF SECTION