

SECTION 03360
FORMATTED SPECIFICATION
SUNDEK® SUNSAND™

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Installation of the SUNDEK® SUNSAND 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 Sundeck 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: Sundeck 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. TUSCAN TEXTURE.

Polymer modified, fiber reinforced cementitious stampable mix: Sundeck SUNSTAMP as manufactured by SUNDEK® Products Inc.

2.3 ACCEPTABLE MATERIALS

- A. Sundeck 106 Blending Mix.
- B. Sundeck 112-113 Premix.
- F. Sundeck 210 Concentrated Additive: Vinyl acetate emulsion with 53% solids content.
- G. Sundeck Sun Epoxy 400: Water based coating.
- H. Sundeck Finish Coat: color based on project requirements.

- I. Sundeck Finish Coat Clear: Optional material based on project requirements.
- J. Sundeck Eco-Clear: Two component water-based polyurethane.
- K. Kiln dried silica sand / fine or medium grade.

2.4 SYSTEM INTEGRITY

- A. SUNDEK SUNSAND 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 SUNSAND installation.
- D. Provide surface drainage at all points no less than 1/4 inch per linear foot. Drainage correction is not guaranteed in the Sundeck SUNSAND 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.

3.3 PROJECT DETAILS

- A. Specific project details will be as follows.
- B. Finished texture shall be SUNDEK SUNSAND TEXTURE.
- C. Primary color shall be "INSERT COLOR HERE".
- D. Specified sealer shall be "INSERT SEALER HERE".

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3.4 APPLICATION

- A. Patch any spalls or damage to provide a smooth continuous surface.
- B. 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.
- C. SUNDEK 106 / 112-113 Blending Mix for smooth or weathered surfaces. (optional)
 - 1. Mix Sundek Blending Mix for bonding base coat application using mechanical agitation for 3-6 minutes as per manufacturers technical guidelines.
 - 2. Pre-dilute 210 concentrated additive at a 2:1 ratio before use.
 - 3. Apply Sundek premix using squeegee or magic trowel. Scrape away edges or ridges when dry.
- D. SUNDEK SUNSAND FINISH
 - 1. Mix Sundek SunEpoxy 400 per manufactures direction.
 - 2. Using a roller and tray, spread the SunEpoxy 400 at 3-5 mils keeping the overlaps to a minimum to avoid stacking. The SunEpoxy 400 may be spread using a squeegee and back rolled.
 - 3. Broadcast the kiln dried sand into the wet epoxy to the point of refusal, typically 1 pound per square foot. A hopper gun may be used for larger areas.
 - 4. Allow the area to dry for a minimum of 16-24 hours.
 - 5. Remove any excess sand by sweeping, scraping and vacuum.
- E. SUNDEK COLOR APPLICATION
 - 1. After the excess sand has been removed the application of Sundek Finish Coat can be done. See the product TDS for complete details.
 - 2. Allow the surface color application to dry completely.
 - 3. The application may be sealed with the appropriate sealer according to the mock-up or sample panel.
 - 4. For commercial applications the Sundek Eco-Clear is the highest performance option for the surface wear.

3.5 PROTECTION

- A. Protect all phases of Sundek SUNSAND 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 SUNSAND application from damage by others until acceptance by responsible party.

3.6 MAINTENANCE

- A. Power wash or rinse thoroughly on a regular basis as needed.
- B. A mild solution using a neutral pH cleaner may be used as needed for tougher stains.
- C. Touch up or minor repairs can be done by an approved Sundek installer only.
- D. Contact your Sundek dealer for further assistance.

END OF SECTION

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