

SECTION 03365
FORMATTED SPECIFICATION
SUNDEK® SUNACID™

PART 1 GENERAL

1.1 SECTION INCLUDES

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

1.2 RELATED SECTIONS

- A. Section 03300 - Cast-In-Place Concrete:
- B. Section 09930 – Stains and transparent finishes.
- C. Section 03925 - Concrete Resurfacing and Rehabilitation.
- D. Section 090190 – Maintenance Coatings.

1.3 REFERENCES

- A. ASTM D1242 – Standard Test Methods for Abrasion Resistance.
- B. ASTM D570 – Standard Test Methods for Water Absorption.
- C. ASTM D-2047-11 Standard Specification for Coefficient of Friction.
- D. ANSI A 326.3 Dynamic Coefficient of Friction.
- E. ASTM D229 – Standard Test Methods for Chemical Resistance by 12 Reagents.
- F. 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: Specific colors are not recommended for exterior use. See technical data sheet for limitations and use.

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;

Web: www.sundek.com;

2.2 SUNDEK® PRODUCTS INC. SUNACID.

A reactive transparent stain as manufactured by SUNDEK® Products Inc.

2.3 ACCEPTABLE MATERIALS

- A. Sundeck SUNACID, available in 10 standard colors.
- B. Sundeck SUNSEAL A-25 Premium solvent borne sealer.
- F. Sundeck SUNGUARD MCU-8 single component urethane sealer.
- G. Sundeck ECO-Clear high performance aliphatic polyurethane.
- H. Sundeck Finish Coat Clear: Optional material based on project requirements.

2.4 SYSTEM INTEGRITY

- A. Sundeck SUNACID 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. Concrete should be cured a minimum of 28 days before installing the SUNACID Reactive stain material.
- D. Provide surface drainage at all points no less than 1/4 inch per linear foot.
- 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. Be sure to use a repair material that will accept the stain.

3.3 PROJECT DETAILS

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

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3.4 APPLICATION

A. SUNDEK SUNACID Surface preparation.

1. Prepare the concrete surface by mechanical grinding or sanding to create a concrete surface profile of a 1-2.
2. Vacuum excess dust and debris from the surface, mop or wipe clean using a damp mop or micro-fiber.
3. Mask all walls and adjacent areas not to receive the stain.

B. SUNDEK SUNACID.

1. Pour the SUNACID into a plastic pump type sprayer. The material may be diluted with water to achieve the desired results. Dilution ratio can be determined during the mock-up or sample installation.
2. If needed the area can be pre-wetted using clean water in a sprayer. Pre-wetting the surface can help to minimize drips or spotting.
3. Spray apply the SUNACID to the surface at the rate of 200-300 square feet per gallon. Follow the application with an acid resistant brush using figure 8 motions to prevent puddles from forming.
4. Allow the material to react on the surface for the amount of time selected during the sample phase. Typically 1-2 hours is sufficient. If modeling with a second color it is best to apply wet on wet wearing spike shoes or cleats.
5. After the reaction period is complete rinse the surface and remove any residual material or solids from the surface. The surface must be neutralized using a baking soda or ammonia diluted in water.
6. After the neutralizing the surface should be clear rinsed. Allow the surface to dry completely before sealing. 12-24 hours.
7. Seal the surface using the specified sealer based on performance and appearance. Follow the application instructions for the selected product. If the surface has not been properly neutralized it can cause blushing or whiting of the sealer.

3.5 PROTECTION

- A. Protect all phases of Sundek SUNACID 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 SUNACID 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.

END OF SECTION

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