

SECTION 096726
FORMATTED SPECIFICATION
SUNDEK® SUNEPOXY 100™ FLOORING

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Installation of the SUNDEK® SUNEPOXY 100 Flooring System including, substrate preparation, substrate repairs, materials, and installation process.

1.2 RELATED SECTIONS

- A. Section 096000 – Flooring.
- B. Section 096700 – Fluid Applied Flooring.
- C. Section 02751 - Portland Cements Concrete Paving.
- D. Section 03925 - Concrete Resurfacing and Rehabilitation.

1.3 REFERENCES

- A. ASTM C722-18 - Specifications for Chemical Resistant Monolithic Flooring.
- B. ASTM D1242 – Standard Test Methods for Abrasion Resistance.
- C. ASTM D570 – Standard Test Methods for Water Absorption.
- D. ASTM 1869-11- Standard Test Method for Measuring Moisture Vapor Emission Rate.
- E. ASTM 2170-19 - Standard Test Method for Determining Relative Humidity.
- F. ASTM D-2047-11 Standard Specification for Coefficient of Friction.
- G. ANSI A 326.3 Dynamic Coefficient of Friction.
- H. ASTM D229 – Standard Test Methods for Chemical Resistance by 12 Reagents.
- I. 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: A mock-up should be created for owner approval

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.

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. SUNONE EPOXY 100 ACCEPTABLE MATERIALS

- A. Sundeck SUNEPOXY 100, 100% solids epoxy resin.
- B. Sundeck SUNEPOXY 100 color pack, 16 standard colors.
- C. Sundeck Crack repair 100, epoxy crack repair material.
- D. Sundeck HT CLEAR, high solids aliphatic polyurethane sealer.
- E. Sundeck ECO-CLEAR, Water based polyurethane sealer.
- F. Sundeck MCU-8, 85% solids moisture cured urethane.

2.3 SYSTEM INTEGRITY

- A. SUNDEK SUNEPOXY 100 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. Verify that the floor moisture levels meet the material standard limitations.
- D. All joints in the substrate must be honored with the SUNEPOXY 100 installation.

3.2 PREPARATION

- A. Surface shall be a CSP-3-5 according to ICRI 310.2R-2013. A shot blaster or floor grinder is the preferred method for mechanical preparation.
- B. Remove dirt, grease, oil, curing compounds or other foreign substances, which may prevent proper bonding. Any demolition of existing coatings may require a mechanical floor grinder prior to shot blasting the surface.
- C. Provide protective masking at all adjacent areas not to be coated.
- D. Repair cracks, surface damage and any corrective measures on concrete using Sundek Crack repair 100.

3.3 PROJECT DETAILS

- A. Specific project details will be as follows.
- B. Finished texture shall be SUNDEK SUNEPOXY 100 FLOORING.
- C. Specified 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. Perform a solvent wipe of the surface to remove any residual dust or debris.
- C. SUNDEK SUNEPOXY 100
 - 1. Mix Sundek SUNEPOXY 100 per manufactures directions. Color may be added at this time if required.
- D. SUNDEK SUNEPOXY 100
 - 1. Apply the SUNEPOXY 100 material per manufactures direction. Application should be 20 mils or a flood coat. A first application of 10 mils is recommended for industrial floors.
 - 2. Allow the area to dry for a minimum of 8-10 hours.
 - 3. The surface may be re-coated at this time if needed.
 - 4. The surface must be sealed within 24 hours of the application using the specified sealer.

3.5 PROTECTION

- A. Protect all phases of Sundek SUNEPOXY 100 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 SUNEPOXY 100 application from damage by others until acceptance by responsible party.

3.6 MAINTENANCE

- A. Wash or rinse thoroughly on a regular basis or 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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