SECTION 09 65 13
RESILIENT BASE

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Resilient base.

1.02 REFERENCE STANDARDS

A. ASTM E648 - Standard Test Method for Critical Radiant Flux of Floor-Covering Systems Using a Radiant Heat Energy Source; 2023.

B. ASTM F1861 - Standard Specification for Resilient Wall Base; 2021.

C. NFPA 253 - Standard Method of Test for Critical Radiant Flux of Floor Covering Systems Using a Radiant Heat Energy Source; 2023.

1.03 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.

B. Product Data: Provide data on specified products, describing physical and performance characteristics; including sizes, patterns and colors available; and installation instructions.

C. Verification Samples: Submit two samples, 4 inch (____x____ mm) minimum, in size illustrating color and profile for each resilient flooring product specified. Submit samples to Owner for approval.

D. Maintenance Materials: Furnish the following for Owner's use in maintenance of project.
   1. See Section 01 60 00 - Product Requirements, for additional provisions.
   2. Extra Wall Base: 24 linear feet of each type and color..

1.04 DELIVERY, STORAGE, AND HANDLING

A. Protect roll materials from damage by storing on end.

1.05 FIELD CONDITIONS

A. Store materials for not less than 48 hours prior to installation in area of installation at a temperature of 70 degrees F (21 degrees C) to achieve temperature stability. Thereafter, maintain conditions above 55 degrees F (13 degrees C), or as recommended by manufacturer.

PART 2 PRODUCTS

2.01 RESILIENT BASE

A. Resilient Base: ASTM F1861, Type TV, vinyl, thermoplastic; top set Style B, Cove.
   1. Manufacturers:
      a. Flexco; 4 inch Vinyl Cove Base VCB; www.flexcofloors.com.
      b. Substitutions: See Section 01 60 00 - Product Requirements.
   2. Critical Radiant Flux (CRF): Minimum 0.45 watt per square centimeter, when tested in accordance with ASTM E 648 or NFPA 253.
   3. Height: 4 inch (100 mm).
   4. Thickness: 0.125 inch (3.2 mm) thick.
   5. Finish: Satin.
   6. Length: Roll.
   7. Color: As indicated on drawings.
   8. Accessories: Premolded external corners and internal corners.

2.02 ACCESSORIES

A. Adhesives: Types recommended by flooring manufacturer.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that surfaces are flat to tolerances acceptable to flooring manufacturer, free of cracks that might telegraph through flooring, clean, dry, and free of curing compounds, surface hardeners, and other chemicals that might interfere with bonding of flooring to substrate.

B. Verify that wall surfaces are smooth and flat within the tolerances specified for that type of work, are dust-free, and are ready to receive resilient base.

3.02 PREPARATION

A. Prepare substrates as recommended by flooring and adhesive manufacturers.

3.03 INSTALLATION

A. Starting installation constitutes acceptance of sub-floor conditions.

B. Install in accordance with manufacturer's written instructions.

C. Spread only enough adhesive to permit installation of materials before initial set.

D. Fit joints and butt seams tightly.

3.04 RESILIENT BASE

A. Fit joints tightly and make vertical. Maintain minimum dimension of 18 inches (45 mm) between joints.

B. Miter internal corners. At external corners, use premolded units. At exposed ends, use premolded units.

C. Install base on solid backing. Bond tightly to wall surfaces.

D. Scribe and fit to door frames and other interruptions.

3.05 CLEANING

A. Remove excess adhesive from floor, base, and wall surfaces without damage.

B. Clean in accordance with manufacturer's written instructions.

END OF SECTION

SECTION 09 61 33
CONCRETE FLOOR SEALER

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Sealing concrete slabs exposed in final construction.

1.02 RELATED REQUIREMENTS

A. Section 03 30 00 - Cast-in-Place Concrete.

B. Section 09 05 61 - Common Work Results for Flooring Preparation.

1.03 REFERENCE STANDARDS

A. ACI 310R - Guide to Decorative Concrete; 2013.

B. ASTM C1315 - Standard Specification for Liquid Membrane-Forming Compounds Having Special Properties for Curing and Sealing Concrete; 2019.

1.04 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.

B. Product Data: Submit manufacturers' data on manufactured products showing compliance with specified requirements and installation instructions.

C. Manufacturer's Installation Instructions: Indicate installation procedures.

1.05 MOCK-UP

A. Provide benchmark mock-up to verify finish indicated and to demonstrate aesthetic effects and set quality standards for materials and execution, i.e., typical joints, surface finish, color variation (if any), and standard of workmanship.

B. Notify Architect seven days in advance of date and time when mock-up will be constructed.

C. Provide a sealed concrete floor finish mock-up, a minimum of 100 square feet, illustrating completed sealed floor. No grinding is necessary.

D. Accepted mock-up will serve as standard to judge quality and workmanship of completed concrete floor finish.

E. Accepted mock-up shall remain as part of finished product.

1.06 PROJECT CONDITIONS

A. Sequence application of concrete grinding and sealing until post completion of other construction activities that would be damaging to the completed concrete finish.

B. Close areas to traffic during and after floor application for time period recommended in writing by manufacturer.

PART 2 PRODUCTS

2.01 SEALING MATERIALS

A. Acrylic Curing and Sealing Compound: Liquid, membrane-forming, curing and sealing compound, clear, non-yellowing acrylic; complying with ASTM C1315 Type 1 Class A; and ACI 310R.
   1. Application: Use at concrete slabs exposed in final construction, but not scheduled to receive polishing or stain.
   2. Vehicle: Solvent-based.
   3. Solids by Mass: 25 percent, minimum.
   4. VOC Content: OTC compliant.
   5. Approved Products:
      a. Seal Cure 25 by W.R. Meadows; www.wrmeadows.com.
      b. Cure and Seal 25 by Dayton Superior; www.daytonsuperior.com.

c. Diamond Clear by Euclid Chemical; www.euclidchemical.com.
d. Substitutions: See Section 01 60 00 - Product Requirements.

PART 3 EXECUTION

3.01 EXAMINATION

A. Examine floor to receive sealed concrete system.

B. Notify the Architect of conditions that would adversely affect installation or subsequent use prior to commencement.

C. Do not begin surface preparation or installation until conditions are corrected and approved.

3.02 SURFACE PREPARATION

A. Protect surrounding areas and adjacent surfaces from contact with overspray of sealer.

B. Clean Surfaces: Remove dirt, dust, debris, oil, grease, curing agents, bond breakers, paint, coatings, and other surface contaminants which could adversely affect sealer.

C. Ensure that concrete is cleaned and prepared per manufacturer's written instructions.

D. Fill concrete joints in accordance with Section 07 92 00 - Joint Sealants requirements prior to installation of any sealer. Failure to install joint filler will cause failure as the sealer will bond to the side wall of the joint which will prevent joint sealant from bonding correctly.

3.03 INSTALLATION

A. Repair all cracks and existing conditions or damage prior to installation of the sealed concrete flooring.

B. Install sealed concrete floor system in accordance with manufacturer's instructions at locations indicated on the Drawings.

C. Joint filler shall be flush with surface after grinding.

D. Clean floor thoroughly using an auto-scrubber and allow to completely dry per manufacturer's instructions.

E. Apply Sealer:
1. Apply sealer per manufacturer's instructed coverage rate using sprayers to insure consistent application.
2. Apply a second coat within the manufacturer's approved recoat time frame.
   a. Per manufacturer's instructions, remove or spread excess product completely from areas of over application.

3.04 FIELD QUALITY CONTROL

A. Inspect completed sealed concrete floor system for compliance and comparison with mock-up. Correct any deficiencies noted.

3.05 PROTECTION

A. Protect completed sealed concrete floor system from damage until Substantial Completion.
1. Prohibit parking of vehicles on concrete slab.
2. If construction equipment must be used for overhead construction, the General Contractor is to require that all trades diaper components that might drip oil, hydraulic fluid, or other liquids.
3. Prohibit pipe cutting or threading using machinery on concrete slab.
4. Prohibit temporary placement and storage of steel members on concrete slab.
5. Cover concrete floors with drop cloths or use breathable drop cloths during painting. If paint is spilled on concrete floor, remove paint immediately.
6. Protect completed sealed concrete surface from standing moisture for 72 hours to prevent re-emulsification of surface treatment prior to cure

B. Immediately remove mortar splatter, spilled liquids, oil, grease, paint, coatings, and other surface contaminants that could adversely affect completed sealed concrete floor system.

C. Repair damaged areas of completed sealed concrete floor system.

D. Protect finished work until project is turned over to the Government.

END OF SECTION

This page was intentionally left blank for duplex printing.