

SECTION 09 65 16

RESILIENT SHEET VINYL FLOORING

PART 1 GENERAL

1.1 GENERAL REQUIREMENTS

1. Work of this Section, as shown or specified, shall be in accordance with the requirements of the Contract Documents.

1.2 SECTION INCLUDES

- A. Work of this Section includes all labor, materials, equipment and services necessary to complete the resilient sheet flooring, as shown on the drawings and/or specified herein, including but not limited to, the following:
 1. Resilient sheet flooring and cove base.
 2. Adhesive.
 3. Accessories.

1.3 RELATED SECTIONS

- A. Section 09 29 00 - Gypsum board.
- B. Section 09 65 19 - Resilient Tile Flooring.

1.4 QUALITY ASSURANCE

- A. Qualifications of Installers: Use only personnel who are thoroughly trained and experienced in the skills required and completely familiar with the requirements established for this work.

1.5 SUBMITTALS

- A. Manufacturer's Data: For information only, submit manufacturer's technical information and installation instructions for type of resilient sheet flooring required.
- B. Samples: Submit samples of each color of resilient sheet flooring required. Provide twelve (12) inch square samples to illustrate the range of color and pattern variation. Sample submittals will be reviewed for color, texture and pattern only. Compliance with all other requirements is the exclusive responsibility of the Contractor.
- C. Maintenance Instructions: Submit two (2) copies of manufacturer's written instructions for recommended maintenance practices for each type of resilient sheet flooring.

1.6 PRODUCT HANDLING

- A. Protection: Use all means necessary to protect the materials of this Section before, during and after installation and to protect the installed work and materials of other trades.
- B. Replacements: In the event of damage, immediately make all repairs and replacements necessary.

1.7 JOB CONDITIONS

- A. Conform to the requirements of SV-1, Resilient Floor Covering Institute Recommended Specification for Resilient Floor Covering Vinyl Plastic Sheet.

PART 2 PRODUCTS

2.1 SHEET VINYL FLOORING

- A. Provide BiospecMD Homogeneous Vinyl Sheet Flooring, manufactured by Mannington. BiospecMD with MCare which is an anti-microbial finish that will inhibit bacterial and mold growth. Color to be determined by owner and architect. Material size 72 in. (1.83 m) wide, having a nominal total thickness of 0.080 in. (2.0 mm). The wear surface shall be Quantum Guard HP, a stain and scratch resistant finish. Vinyl sheet flooring shall meet ASTM F 1913, "Standard Specification for Vinyl Sheet Floor Covering Without Backing."
- B. [Provide [solid color] [patterned] vinyl weld rod as produced by Mannington, and intended for heat welding of seams. Color shall be compatible with field color of flooring or as selected by Architect to contrast with field color of flooring. Color to be selected by owner and architect.

2.2 MANUFACTURERS

- A. Provide sheet vinyl flooring and accessories specified, manufactured by one of the following or approved equal:
 - 1. Mannington
 - 2. Armstrong
 - 3. Altro Flooring

2.3 ACCESSORIES

- A. Vinyl welding rod: Acceptable material:
 - 1. Mannington weld rod
- B. Cove former: Acceptable material, sized to suit application:

1. Roppe Cove former: Size suit condition on drawing.
- C. Gulley edge: Acceptable material, vinyl, sized to suit application.
- D. Cap strip: Acceptable material, sized to suit application stainless steel.
- E. Joint cover strip: Acceptable material, vinyl, sized to suit application.
- F. Acrylic Adhesive: Use Mannington's V-82 adhesive recommended by manufacturer.
- G. Polyurethane Adhesive: For areas subjected to spillage, extreme temperature changes or heavy rolling loads, use Mannington's V-95 a two-part recommended adhesive.
- H. Subfloor Filler and Leveler: Use only Calcium Aluminate underlayments, and patching compounds for filling cracks, holes or leveling. White gypsum materials are not acceptable.
 1. CMP www.cmpsp.com
 2. DramaticSurfaceProducts www.dramaticsurfaceproducts.com
- I. Metal edge strips:
 1. Smooth, stainless steel with lip to extend under floor finish, shoulder flush with top of adjacent floor finish.

PART 3 EXECUTION

3.1 INSPECTION

- A. Examine the areas and conditions where resilient sheet flooring is to be installed and correct any conditions detrimental to the proper and timely completion of the work. Do not proceed with the work until unsatisfactory conditions are corrected to permit proper installation of the work.

3.2 PREPARATION

- A. Subfloors: Prior to start of laying the sheet flooring, broom clean or vacuum all surfaces to be covered.
 1. Lightly grind concrete subfloors with a terrazzo grinder to remove any trowel marks or other surface irregularities which will telegraph to the sheet flooring surface. If grinding is not required, acid etch floor with ten (10) percent muriatic acid as required to remove any curing compound that would interfere with adhesive bond.
 2. Use leveling compound as recommended by sheet flooring manufacturer for filling small cracks and depressions in subfloors.
 3. Subfloor shall be level to $\pm 1/8"$ in 10'-0" distance and 1/4" total maximum variation from level shown.

- B. Perform moisture tests on concrete floors regardless of the age or grade level. Verify concrete substrate is dry in accordance with the RFCI Industry Standards Slab Moisture Test Method (Calcium Chloride Method), in strict accordance with instructions.
 - 1. Perform moisture condition test in each major area. A minimum of 1 test per 93 m² (1000 sqft), prior to installation. Moisture emissions from concrete subfloors must not exceed 3 lbs per 1000sf per 24 hours (1.4 kg H₂O/24 hr/93 m²) for acrylic adhesive and 5lbs for polyurethane adhesive via the Calcium Chloride Test Method (ASTM F1869). If subfloor moisture exceeds the allowable maximum for installing Mannington, please call your local Mannington distributor for advice.
- C. Conduct moisture tests around room perimeter, at columns and where moisture may be evident.
- D. Perform alkali tests to ensure pH levels of concrete subfloor surface do not exceed pH 9.9. Concrete must be neutralized if above pH 9.9.
- E. Do not proceed with work until results of moisture condition and/or pH tests are acceptable.
- F. Underlayment and Patching Compounds: Use only Calcium Aluminate based underlayments; patching compounds are used for filling cracks, holes and leveling. White gypsum materials are not acceptable.
- G. Concrete Primer: Apply concrete slab primer if recommended by the sheet flooring manufacturer, prior to application of the adhesive. Apply in compliance with manufacturer's directions.

3.3 INSTALLATION

- A. Install sheet flooring only after all finishing operations, including painting, have been completed and permanent heating system is operating. Moisture content of concrete slabs, building air temperature and relative humidity must be within limits recommended by sheet flooring manufacturer.
- B. Flooring shall be installed to a tolerance of 1/8" in 10'-0" run; 1/32" offset at any location.
- C. Place sheet flooring with adhesive cement in strict compliance with the manufacturer's recommendations. Butt tightly to vertical surfaces, thresholds, nosings and edgings. Scribe around obstructions and to produce neat joints, laid tight, even and in straight, parallel lines. Extend sheet flooring into toe spaces, door reveals, and into closet and similar openings.
- D. Provide integral cove base where scheduled, including cove support strip and aluminum top edge strip. Construct coved base in accordance the manufacturer's instructions.
- E. Maintain reference markers, holes, or openings that are in place or plainly marked for future cutting by repeating on the finish flooring as marked in the subfloor. Use chalk or other non-permanent marking devices.

- F. Lay sheet flooring to substrate without open cracks, voids, raising and puckering at joints, telegraphing of adhesive spreader marks, or other surface imperfections.
- G. Lay sheet flooring to provide as few seams as possible. Match edges for color shading and pattern at seams in compliance with the manufacturer's recommendations, such as reversing adjoining sheets of the same roll, so that abutting edges are from the same edge of the roll.
- H. Weld seams in vinyl sheet flooring in compliance with the manufacturer's instructions to provide a "seamless" installation.
- I. Place resilient edge strips tightly butted to sheet flooring and secure with adhesive. Provide edging strips at all unprotected edges of sheet flooring, unless otherwise shown.

3.4 CLEANING AND PROTECTION

- A. Remove any excess adhesive or other surface blemishes from sheet flooring, using neutral type cleaners as recommended by the sheet flooring manufacturer. Protect installed flooring from damage by use of heavy Kraft paper or other covering.

END OF SECTION 09 65 16