

SECTION 09 65 00 – RESILIENT FLOORING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes:
 - 1. Vinyl composition tile flooring.
 - 2. Rubber (resilient) base.
 - 3. Cleaning, waxing and buffing of resilient flooring.
- B. Related Work of Other Sections:
 - 1. Section 03 33 00 "Cast-In-Place Concrete."
 - 2. Section 06 40 00 "Architectural Woodwork."
 - 3. Section 09 90 00 "Painting and Coating."

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product indicated.
- B. Samples for Initial Selection: For each type of product indicated.
- C. Samples for Verification: Full-size units of each color and pattern of resilient flooring required.
 - 1. Resilient Wall Base and Accessories: Manufacturer's standard-size Samples, but not less than 12-inches long, of each resilient product color and pattern required.
 - 2. Architect's approval will be for color and texture only; compliance with other requirements is Contractor's exclusive responsibility.
- D. Maintenance Data: For resilient products to include in maintenance manuals.
- E. Attic Stock Material: Furnish a minimum 240-sf of each type vinyl composition tile and 120-lf of each type of resilient base in manufacturer's unopened containers.

1.4 QUALITY ASSURANCE

- A. Fire-Test-Response Characteristics: Provide products identical to those tested for fire-exposure behavior per test method indicated by a testing and inspecting agency acceptable to authorities having jurisdiction.

1.5 DELIVERY, STORAGE AND HANDLING

- A. Store resilient products and installation materials in dry spaces protected from the weather, with ambient temperatures maintained within range recommended by manufacturer, but not less than 50-degrees F or more than 90-degrees F. Store tiles on flat surfaces.

1.6 PROJECT CONDITIONS

- A. Maintain temperatures within range recommended by manufacturer, but not less than 70-degrees F or more than 95-degrees F, in spaces to receive floor tile during the following time periods:
 - 1. 48 hours before installation.
 - 2. During installation.
 - 3. 48 hours after installation.
- B. After post-installation period, maintain temperatures within range recommended by manufacturer, but not less than 55-degrees F or more than 95-degrees F.
- C. Close spaces to traffic during floor covering installation.
- D. Close spaces to traffic for 48-hours after floor covering installation.
- E. Install resilient products after other finishing operations, including painting, have been completed.

PART 2 - PRODUCTS

2.1 PRODUCTS AND MANUFACTURERS

- A. Vinyl Composition Tile (VCT): See Finish Legend and Finish Schedules for product selections, colors, and locations.
- B. Rubber Base (RB): See Finish Legend and Finish Schedule for product selection, colors, and locations. Provide 30 percent recycled content.

2.2 ACCESSORY MATERIALS

- A. Adhesives (Cements): Waterproof, stabilized type as recommended by flooring manufacturer. Do not use asphalt emulsions and other non-waterproof adhesives.
- B. Adhesive Primer: Non-staining type as recommended by flooring manufacturer.
- C. Latex Modified Portland-Cement Based Self-Leveling Underlayment: Ardex "K-15", Cormix "Corlevel", or Sonneborn "Sonoflow", or equivalent including bonding agent (if any) recommended by underlayment manufacturer.
- D. Metal Edge Trim: Schuter-Systems A 30, 1/8" high extruded aluminum edge trim, or equivalent.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine areas and conditions under which resilient flooring and accessories are to be installed and do not proceed with work until unsatisfactory conditions have been corrected in an acceptable manner.
- B. Confirm that concrete has cured a minimum of 60-days prior to scheduling installation of flooring and that no rain or water from all sources has been allowed to stand on concrete floor areas scheduled to receive flooring materials for a minimum of 30-day prior to flooring installation.
- C. Moisture Vapor Emission Tests: Test each 1,000-sq. ft. of flooring substrate, or portion thereof, with an anhydrous calcium chloride test kit equivalent to the Vaprecision Test Kit produced by Vaprecision Professional Vapor Emission Testing Systems, Newport Beach, CA (Tel) 800-449-6194, or equivalent.
 - 1. Conduct tests for a minimum of 72 hours in accordance with the test kit manufacturers printed instructions.
 - 2. An emission rate of less than 3.0-lb./1,000 sq. ft. in 24 hours indicates that substrate is acceptable for flooring installation.
 - 3. If emission rates are 3.0-lb./1,000 sq. ft. in 24 hours or greater anywhere in the area tested, submit a written test report to Architect and Owner within 24 hours, indicating the type of test kit used and the test results at each location tested.
 - 4. In addition, submit a proposal to furnish and install a vapor emission control penetrant system, or a vapor emission control coating system, or a vapor emission control dispersal membrane system as dictated by test results and produced by Floor Seal Technology, Inc., San Jose, CA (Tel) 800-572-2344, or one of the appropriate "VaprStop" fast-cure epoxy concrete water vapor sealer system produced by DuPont Flooring Systems, Kennesaw, GA (Tel) 800-438-7668, or www.dupontcommercial.com, or equivalent.
- D. pH Tests: Two days prior to scheduled flooring installation date, test each 1,000-sq. ft. of flooring substrate, or portion thereof to determine the pH of concrete substrates to receive flooring has a pH of about 9.0 in accordance with ASTM F 710.
 - 1. Confirm that tests of pH levels are within limits permitted by flooring adhesive manufacturer prior to installation of flooring.
 - 2. Do not grind, shot blast, or perform similar operations that will remove the top surface of cured concrete substrates scheduled to receive flooring unless specifically recommended by the flooring adhesive manufacturer in writing to correct a specific concrete substrate deficiency.

3.2 PREPARATION

- A. Prior to laying flooring, vacuum-sand concrete and wood floor surfaces to be covered and inspect subfloor. Start of flooring installation will indicate acceptance of subfloor conditions and full responsibility for completed resilient flooring work. Patch holes and defects in existing substrates indicated to receive resilient flooring materials.
- B. Apply adhesive primer, as recommended by flooring manufacturer, prior to application of adhesive.

3.3 TILE INSTALLATION

- A. Install flooring after finishing operations, including painting, have been completed and permanent heating system is operating. Moisture content of subflooring, building air-temperature, and relative humidity shall be within limits recommended by flooring manufacturer.
- B. Place flooring with adhesive cement in strict compliance with flooring and adhesive manufacturer's printed instructions. Butt tightly to vertical surfaces, thresholds, nosings, and edgings. Scribe around obstructions to produce neat, tight, even, and straight joints. Extend flooring into toe spaces, door reveals, and into closets and similar openings.
- C. Tightly cement flooring to subbase without open cracks, voids, raising, and puckering at joints, telegraphing of adhesive spreader marks, or other surface imperfections.
- D. Lay tile from center marks established with principal walls, discounting minor offsets, so that tile at opposite edges of the room are equal width. Adjust to avoid use of cut widths less than 3" wide at room perimeters. Lay tile square to room axis.
- E. Match tiles for color and pattern by using tile from cartons in same sequence as manufactured and packaged. Cut tile neatly to and around all fixtures. Broken, cracked, chipped, or deformed tile will not be acceptable.
- F. Lay tile with grain in the same direction as directed by Architect; basket weave installation is not acceptable.

3.4 INSTALLATION, ACCESSORIES

- A. Place resilient edge strips tightly butted to flooring and secure with adhesive. Install edging strips to all unprotected edges of flooring.

3.5 CLEANING AND PROTECTION

- A. Remove excess adhesive and other surface blemishes from flooring and base, using types of cleaners as recommended by flooring manufacturer.
- B. Protect installed flooring from damage by covering with approved coverings.
- C. Finishing: Just prior to final inspection of the Work, thoroughly clean new and existing floors and accessories and apply type of wax and buff as recommended in resilient flooring manufacturer's printed instructions for proper care and finishing of resilient flooring furnished.

END OF SECTION 09 65 00