

SECTION 09650

RESILIENT FLOORING

PART 1 GENERAL

1.01 DIVISION OF RESPONSIBILITIES TERMINOLOGY: **NOT USED**

1.02 SUMMARY: The Contractor shall provide Vinyl Composition Tile, Vinyl Base and related accessory items where shown on the drawings, as specified in this Section, and as needed for a complete and proper installation.

1.03 RELATED WORK:

- A Section 01710- Construction & Final Cleaning, reference for final floor cleaning and waxing
- B Section 03310- Concrete Floor Preparation
- C Section 07190- Moisture Mitigation Systems
- D Section 09660- Resilient Sheet Flooring

1.04 SUBMITTAL: The Contractor shall provide Concrete Floor Testing results to the PETCO Product Manager per Section 01340 requirements. This submittal is for the PETCO Project Manager's records only. No other product submittal is required for the work of this Section IF provided per the construction documents. Any Request for Product Substitution must be submitted per Section 01340- Submittals.

1.05 QUALITY ASSURANCE:

A. Flooring Layout:

- 1 The Contractor shall request a Floor Layout CAD file (prepared in AutoCAD format) from the Petco Project Manager and the Petco Tenant Improvement Architect, via e-mail:

clay.earley@petco.com

dfranco@sblm.com

The Contractor shall hire and pay for a qualified surveyor to lay out the Retail Area flooring pattern on site, using the Floor Layout CAD file as the basis for the layout.

The Petco Tenant Improvement Architect should provide the requested CAD file within two working days of the Contractor's request. The Contractor may provide the surveyor's e-mail address as an additional recipient of the CAD file.

- 2 The Architect will provide the most current Flooring Layout information available at the time of the Contractor's request for the Flooring Layout CAD file. Should a subsequent Construction Bulletin be issued that impacts the flooring layout, it is the Contractor's responsibility to request a revised, updated CAD file from the Architect.

B. Concrete Floor Testing:

1. Moisture Emission Level Test: The Contractor shall provide testing to confirm moisture vapor emission levels, in accordance with ASTM F 1869.98 "Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride". This testing must be provided in an enclosed, temperature controlled building shell approximately 30 days prior to the resilient flooring installation.
 - a. Maximum Acceptable Moisture Emission Level: Moisture Vapor shall not exceed 5.0 pounds per 1000 square feet per 24 hours.
 - b. Note that the specified "acceptable" emission level for this flooring product may be different than for other flooring products scheduled.
 2. Alkali Test: The Contractor shall provide testing for alkalinity before the installation of resilient flooring, to confirm pH between 5 to 9.
 3. Bond Test: The Contractor shall provide a Bond Test as recommended by the flooring manufacturers, to confirm the compatibility of resilient flooring adhesives to the concrete floor after removal of old adhesives, curing agents, breaker compounds, dust inhibitors, oil, grease, paint and other special surface treatments and conditions.
 4. Concrete Slab Vapor Control Treatment shall be provided if the Maximum Acceptable Moisture Emission Level exceeds the limit specified, or if the Alkalinity pH as tested is above 9.
- C. Resilient Flooring Installation shall be in accordance with ASTM F 710-98 "Standard Practice for Preparing Concrete Floors to Receive Flooring" If required due to existing conditions, Moisture and pH Mitigation shall be provided per Section 07190-Moisture Mitigation Systems.
- D. Vinyl Composition Floor Tile adjacent to the Aquarium Area must be completely installed prior to the installation of Epoxy Flooring.

1.04 WARRANTY:

- A. Moisture Mitigation: If provided, then the Contractor shall provide the Moisture Mitigation: System manufacturer's product warranty in the Building Maintenance Manual per Section 01700-Contract Closeout.
- B. Flooring: The Contractor shall provide the flooring manufacturer's product warranty in the Building Maintenance Manual per Section 01700-Contract Closeout.
- C. Flooring Adhesive: The Contractor shall provide the flooring adhesive manufacturer's product warranty in the Building Maintenance Manual per Section 01700-Contract Closeout.
- D. Installer's Warranty: The Contractor shall include a copy of the installer's warranty for all work provided, for a term of 1 year after the Date of Substantial Completion in the Building Maintenance Manual per Section 01700-Contract Closeout requirements.

PART 2 PRODUCTS

2.01 VINYL COMPOSITION TILE:

- A. No substitutions to the products specified in this section are acceptable.
- B. Where Armstrong Interiors products are specified, contact Lisa Cavataio, Account Manager / Retail National Accounts (773-868-0270; lvavataio@armstrong.com) for Petco's national account pricing and to verify product availability. No product substitution is permitted.

- C. Where Amtico products are specified, contact Bob Clyburn, National Accounts Manager (bob.clyburn@amtico.com; Ph. 949-201-5045; for Petco's national pricing and to verify product availability. No product substitution is permitted.
- D. Drawing Key Symbol "FC-01A"
1. Provide Armstrong Standard Excelon Imperial Texture, 12" x 12" x 1/8" vinyl composition tile.
 - a. Color Buttercream Yellow #51800
 2. Installation pattern: Parquet pattern, with grain direction alternating in adjacent tile units
 3. Provide final Cleaning and Waxing per Section 01710-Construction & Final Cleaning
- D. Drawing Key Symbol "FC-02A"
1. Provide Armstrong Standard Excelon Imperial Texture, 12" x 12" x 1/8" vinyl composition tile.
 - a. Color Curried Caramel #51942
 2. Installation pattern: Parquet pattern, with grain direction alternating in adjacent tile units
 3. Provide final Cleaning and Waxing per Section 01710-Construction & Final Cleaning
- E. Drawing Key Symbol "FC-03A"
1. Provide Armstrong Standard Excelon Imperial Texture, 12" x 12" x 1/8" vinyl composition tile.
 - a. Color Camel Beige #51805
 2. Installation pattern: Parquet pattern, with grain direction alternating in adjacent tile units.
 3. Provide final Cleaning and Waxing per Section 01710-Construction & Final Cleaning.
- F. Vinyl Composition Tile (Drawing Key Symbol "FC-07A") :
1. Provide Amtico Spacia, 18" x 18" x 1/8" vinyl composition tile, available from Amtico International, Atlanta GA.
 - a. Color: Spacia #S-ST2554 Concrete Putty
 2. Installation pattern: Parquet pattern, with grain direction alternating in adjacent tile units.
 3. This product DOES NOT receive final Waxing per Section 01710-Construction & Final Cleaning. Provide general "final construction cleaning" only.
- G. Flooring Adhesives:
1. Normal Traffic Areas: Provide waterproof and stabilized type adhesive, such as Armstrong full-spread adhesives S-89, S-515, S-700 or S-750, or as otherwise recommended by the flooring manufacturer
 2. Wet Areas: Provide Mapei Ultra/ Bond G 19 two-part epoxy adhesive at all VCT-3 located within a minimum of 10 feet of the store's water-filled Aquarium fixtures. For areas farther than 10 feet from the store's water-filled Aquarium fixtures, the installer

may provide the same waterproof and stabilized flooring adhesive as provided for VCT-1 type adhesive, or as may be alternatively recommended by the flooring manufacturer.

3. If a Moisture Mitigation product is provided due to existing concrete floor moisture and pH levels, as specified in Section 07190- Moisture Mitigation Systems, then provide a compatible flooring adhesive.

2.02 VINYL WALL BASE:

- A. Provide products by Johnsonite. Contact Laurie Baatz (800-899-8916; lbaatz@johnsonite.com). No substitution is acceptable.
- B. Drawing Key Symbol "WB-01":
 1. Provide Johnsonite Traditional 1/8" Vinyl coved toe 4" wall base, Color Fawn #80.
 2. Wall Base Adhesive: Provide waterproof and stabilized type adhesive as recommended by the vinyl base manufacturer.

2.03 MOISTURE MITIGATION: If either the measured Moisture Emission Level or the pH Level are above the flooring adhesive manufacturer's limits, then the Contractor shall provide concrete slab moisture mitigation treatment per Section 07190-Moisture Mitigation Systems.

2.04 OTHER MATERIALS: Provide non-staining type Concrete Slab Primer as required and as recommended by the flooring manufacturers.

2.05 MOISTURE MITIGATION: If either the measured Moisture Emission Level or the pH Level are above the flooring adhesive manufacturer's limits, then the Contractor shall provide concrete slab moisture mitigation treatment per Section 07190-Moisture Mitigation Systems.

2.06 OTHER MATERIALS: Provide non-staining type Concrete Slab Primer as required and as recommended by the flooring manufacturers.

PART 3 EXECUTION

3.01 SURFACE CONDITIONS:

- A. The Contractor shall examine the subfloor prior to installation to determine that surfaces are smooth and free from cracks, holes, ridges, and other defects that might prevent adhesive bond or impair durability or appearance of the flooring material.
- B. The Contractor shall inspect the subfloor prior to installation to determine that surfaces are free from curing, sealing, parting and hardening compounds; residual adhesives; adhesive removers; and other foreign materials that might prevent adhesive bond. The Contractor shall visually inspect for evidence of moisture, alkaline salts, carbonation, dusting, mold, or mildew. If there are visible indications of mold and mildew, the source of the problem must be located and corrected.
- C. The Contractor shall verify that moisture content of concrete slabs, building air temperature, and relative humidity are within the limits recommended by the product manufacturer. If the measured Moisture Emission Level and pH Level are above the flooring adhesive manufacturer's limits, then the Contractor shall provide concrete slab moisture mitigation treatment per Section 07190-Moisture Mitigation Systems.

- D. The Contractor shall not proceed with the installation until any unsatisfactory conditions have been corrected. Installation indicates acceptance of substrates with regard to conditions existing at the time of installation.

3.02 PREPARATION:

- A. Subfloor: Verify that substrate is smooth, level, at required finish elevation, and with no more than 1/8" in 10'-0" variation from level. Fill and level cold joints, cracks or depressions with a flooring manufacturer-accepted cementitious patching compound.
- B. Priming: Apply concrete slab primer if so recommended by the resilient flooring manufacturer, and in accordance with the manufacturer's recommendations.

3.03 INSTALLATION:

- A. General: Broom clean or vacuum the surfaces to be covered. Install materials only after finishing operations, including painting, have been completed, and after permanent heating system is operating.
- B. For installation of resilient flooring directly over a Moisture Mitigation system, the contractor shall use a 100% solids adhesive, and/ or contact type adhesives with long working times that can be applied to substrates with a pH up to 10. The method of use is to apply the contact type adhesives to the substrate and allow the materials water to flash off prior to the flooring installation. Test proper adhesion of adhesive to moisture mitigation product prior to the installation of the entire flooring system.
- C. Installing Vinyl Composition Tile:
 - 1. Lay tile units from center marks established with principal walls, discounting minor offsets, so that units at opposite edges of the room are of equal width. Adjust as necessary to avoid cut widths less than 3" wide at room perimeter.
 - 2. Match tile units for color and pattern by using tile from cartons in the same sequence as manufactured and packaged.
 - 3. Pattern: Varies, refer to the specific tile scheduled and described in this Section.
- D. Installing Transitions: Install transitions where vinyl tile abuts an exposed concrete floor, where shown on the drawings, or in accordance with the manufacturer's recommendations. The Vinyl Transition MUST be installed in its final location prior to the epoxy flooring installation. It is intended that the Vinyl Transition top surface be taped off by the Contractor, and used as a finishing screed for the subsequently installed epoxy flooring.
- E. Installing Vinyl Base: Install Vinyl Base where shown on the drawings, and in accordance with the manufacturer's recommendations.

3.04 CLEANING:

- A. Vinyl Composition Tile and Transitions: Remove excess adhesive and other blemishes from exposed surfaces, using a neutral cleaner recommended by the manufacturer. Apply cleaner and wax products; then buff in accordance with Section 01710-Construction & Final Cleaning requirements, immediately prior to the Date of Substantial Completion. Not all vinyl flooring is to be waxed; refer to the specific flooring specification in this Section.
- B. Vinyl Base: Remove excess adhesive and other blemishes from exposed surfaces, using a neutral cleaner recommended by the manufacturer.

END OF SECTION

