

Part 1 General

1.1 RELATED REQUIREMENTS

- .1 Restoring of existing subfloors
- .2 Cutting and restoring

1.2 REFERENCE STANDARDS

- .1 American Society for Testing and Materials International (ASTM)
 - .1 ASTM F 1066-04, Standard Specifications for Vinyl Composition Floor Tile
 - .2 ASTM F 1344-04, Standard Specifications for Rubber Floor Tile
- .2 Canadian General Standards Board (CGSB)
 - .1 CAN/CGSB-25.20-95, Surface Sealer for Floors
 - .2 CAN/CGSB-25.21-95, Detergent-Resistance Floor Polish
- .3 Health Canada / Workplace Hazardous Materials Information System (WHMIS)
 - .1 Material Safety Data Sheets (MSDS).
- .4 South Coast Air Quality Management District (SCAQMD), California State, Regulation XI. Source Specific Standards
 - .1 SCAQMD Rule 1168-A2005, Adhesives and Sealants Applications.

1.3 ACTION AND INFORMATIONAL SUBMITTALS

- .1 Submit the required documents and samples in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Submit data sheets in accordance with Section 01 33 00 - Submittal Procedures.
- .3 Submit required samples in accordance with Section 01 33 00 - Submittal Procedures.
 - .1 Submit two (2) samples of cladding tile of prescribed dimensions and two (2) base samples, 300 mm in length.
- .4 Documents / Deliverables upon completion of work
 - .1 Provide the resilient floor covering maintenance sheets and attach them to the manual referred to in section 01 78 00 - Documents / Completion Items.

1.4 DELIVERY, STORAGE AND HANDLING

- .1 Deliver, store and handle materials in accordance with Section with manufacturer's written instructions and 01 61 00 - Common Product Requirements.
- .2 Packaging Waste Management: remove for reuse and recycling of packaging materials as specified in 01 74 21 - Construction/Demolition Waste Management and Disposal.

1.5 SITE CONDITIONS

- .1 Ambient Conditions:
 - .1 Maintain air temperature and structural base temperature at flooring installation area above 20 degrees for 48 hours before, during and 48 hours after installation.

1.6 MAINTENANCE MATERIAL SUBMITTALS

- .1 Extra Materials:
 - .1 Provide extra materials of resilient sheet flooring and adhesives in accordance with Section 01 78 00 - Closeout Submittals.
 - .2 Provide 10% cladding tiles of each color, pattern and type needed to keep the structures in good condition.
 - .3 Extra materials one piece and from same production run as installed materials.
 - .4 Identify each roll of sheet flooring and each container of adhesive.
 - .5 Deliver to Departmental Representative, upon completion of the work of this section.
 - .6 Store where directed by Departmental Representative.

Part 2 Products

2.1 MATERIALS

- .1 Vinyl Tiles: Meets ASTM F 1066 Composition 1 - Asbestos Free, Class 2 - 3mm thick smooth-surfaced pattern color of the color chosen by the Departmental Representative.
- .2 Finishing
 - .1 Factory finish.
 - .2 Finished on site.
 - .1 Apply four coats of polyurethane.
 - .2 Apply polyurethane coating at least 1 liter per 5 m.
 - .3 Ensure finish coat is free from irregularities, voids, dust and other imperfections.
 - .4 When dry, lightly sand finish coat with 120 grit sandpaper to promote adhesion of subsequent coating layers.
 - .5 Vacuuming.
 - .6 Apply all other required topcoat layers.
 - .7 Allow the finish to dry for 24 hours before allowing pedestrian traffic, and allow it to cure for seven (7) days before beginning to place furniture or other heavy objects.
- .3 Base: vinyl cove base, measuring at least 1200 mm in length x 100 mm in height x 3.2 mm in thickness, of the color chosen by Departmental Representative.

- .4 Primers and adhesives: waterproof, recommended by the manufacturer of the flooring, compatible with the support, whether the support is located at ground level, or above or below it.
 - .1 Flooring Adhesives
 - .1 Adhesive: VOC content according to SCAQMD regulation number 1168.
 - .2 Vinyl cove base Adhesives
 - .1 Adhesive: VOC content up to SCAQMD regulation 1168.
- .5 Filler and smoothing compound for support: premixed white latex requiring only water to produce a binder paste, as recommended by the flooring manufacturer.
- .6 Metal edging: extruded aluminum, smooth, polished, with flap extending beneath floor covering, flush to top of adjoining liner.
- .7 Sealers (primer): in accordance with CAN / CGSB-25.20, of the type recommended by the flooring manufacturer.
 - .1 Sealant
 - .1 Sealant: VOC content according to SCAQMD regulation number 1168.
- .8 Wax: in accordance with CAN / CGSB-25.21 and type recommended by flooring manufacturer.

Part 3 Execution

3.1 MANUFACTURER'S INSTRUCTIONS

- .1 Compliance: Comply with manufacturer's written requirements, recommendations, and specifications, including any available technical reports, instructions for handling, storing, and applying products, and data sheet instructions

3.2 SITE VERIFICATION OF CONDITIONS

- .1 Ensure concrete floors are clean and dry by using test methods recommended by flooring manufacturer.

3.3 PREPARATION

- .1 Remove existing resilient flooring.
- .2 Remove or treat old adhesives to prevent residual, old flooring adhesives from bleeding through to new flooring and/or interfering with the bonding of new adhesives.
- .3 Clean floor and apply filler; trowel and float to leave smooth, flat hard surface. Prohibit traffic until filler cured and dry.
- .4 Remove sub-floor ridges and bumps. Fill low spots, cracks, joints, holes and other defects with sub-floor filler.
- .5 Support to resilient flooring manufacturer's printed instructions.

3.4 APPLICATION: FLOORING

- .1 Provide high ventilation rate, with maximum outside air, during installation, and for 48 to 72 hours after installation. If possible, vent directly to outside. Do not let contaminated air recirculate through district or whole building air distribution system. Maintain extra ventilation for at least 1 month following building occupation.
- .2 Apply adhesive uniformly using recommended trowel. Do not spread more adhesive than can be covered by flooring before initial set takes place.
- .3 Lay flooring with seams parallel to building lines to produce a minimum number of seams. Border widths minimum 1/2 width of full material.
- .4 Arrange square grid pattern tiles with aligned joints.
- .5 As installation progresses, and after installation roll flooring with 45 kg minimum roller to ensure full adhesion.
- .6 Cut flooring around fixed objects.
- .7 Install feature strips and floor markings where indicated. Fit joints tightly.
- .8 Terminate flooring at centreline of door in openings where adjacent floor finish or colour is dissimilar.
- .9 Install metal edge strips at unprotected or exposed edges where flooring terminates.

3.5 APPLICATION: BASE

- .1 Lay out base to keep number of joints at minimum. Use the longest base available on the market, or make the joints in the inside corners.
- .2 Clean substrate and prime with one coat of adhesive.
- .3 Apply adhesive to back of base.
- .4 Set base against wall and floor surfaces tightly by using 3 kg hand roller.
- .5 Install straight and level to variation of 1:1000.
- .6 Scribe and fit to door frames and other obstructions. Use premoulded end pieces at flush door frames.
- .7 Install toeless type base before installation of carpet on floors.

3.6 QUALITY CONTROL ON SITE

- .1 On-site inspections by the manufacturer
 - .1 The manufacturer must make recommendations for the use of the product (s), and make periodic visits to verify that the implementation has been carried out in accordance with its recommendations.

3.7 CLEANING

- .1 Progress Cleaning: clean in accordance with Section 01 74 11 - Cleaning.
- .2 Remove surplus adhesives on floors, base and walls

- .3 Clean, seal and wax the newly-coated floor and base in accordance with the flooring manufacturer's written instructions. Where carpet flooring is required, clean, seal and wax base before installing carpet.

3.8 PROTECTION

- .1 Protect new floors from time of final set of adhesive until final inspection.
- .2 Prohibit traffic on floor for 48 hours after installation.

END OF SECTION

