

SECTION 09624 - SYNTHETIC ATHLETIC FLOORING**PART 1 - GENERAL****1.1 DESCRIPTION**

- A. Related work specified under other sections.
 - 1. CONCRETE SUBFLOORS - SECTION 03__ __
 - a. The general contractor shall furnish and install the concrete subfloors. The slab shall be steel troweled and finished smooth to a tolerance of 1/8" in any 10' radius. High spots shall be ground level, and low spots filled in with approved leveling compound. **No concrete curing or hardening agents shall be applied to concrete subfloor.**
 - 2. MEMBRANE WATERPROOFING - SECTION 07__ __
 - a. Concrete subfloors on or below grade shall be adequately waterproofed beneath and at the perimeter walls and on earth side of below grade walls. It is the responsibility of the engineer to determine the extend of this need.
 - 3. THRESHOLDS - SECTION 08__ __

1.2 QUALITY ASSURANCE

- A. MANUFACTURER: Manufacturer of resilient flooring shall be a firm specializing in manufacturing products specified in this section. Manufacturer/supplier shall be ISO 9001 certified and in the sports flooring business a minimum of 10 years.
- B. INSTALLER:
 - 1. The complete installation of the flooring system, as described in the scope of these specifications, shall be carried out by an experienced installer (Flooring Contractor), and the work shall be performed in accordance with most recent installation instructions of the manufacturer.
 - 2. Installer (Flooring Contractor) shall be liable for all matters related to installation for a period of one year after the floor has been substantially installed and completed.

1.3 SUBMITTALS

- A. Submit Connor ElastiRoll/ElastiMat™ specification sheets.
- B. Sample - Submit one sample of specified system, if requested by Architect.
- C. Maintenance Literature - Upon completion of floor installation, send to owner, attendants or individuals in charge and responsible for the upkeep of the building a Connor Synthetic Care & Maintenance Guide. These instructions shall be followed. Any variations, deviations or substitutions shall be submitted to Connor for approval.

1.4 WORKING CONDITIONS

- A. Synthetic materials specified herein shall not be installed until all masonry, painting, plaster, tile, marble and terrazzo work is completed, and overhead mechanical trades and painters have finished in the synthetic floor areas. The building shall be enclosed and weather tight.
- B. Permanent heat, light and ventilation shall be installed and operating during and after installation. Subfloors shall be clean, dry and free from dirt, dust, oil, grease, paint, alkali, concrete curing agents, hardening and parting compounds, old adhesive residue or other foreign materials. The general contractor shall provide an area where the stored materials can be maintained at a minimum of 55 degrees and under 50% relative humidity. Ideal installation and storage conditions are the same as those which will prevail when building is occupied. Moderate room temperature of 65 degrees or more shall be maintained for a week prior to, during and for 72 hours after installation.
- C. Flooring installation shall not begin until all sub-contract work which would cause damage, dirt, dust or interruption of normal installation pace is completed. The installation area shall be closed to all traffic and activity for a period to be set by the flooring contractor.
- D. Moisture vapor transmission of the concrete slab must not exceed 5.5 lbs per 1,000 square feet in 24 hours when using the Calcium Chloride Test as per ASTM 1869-98 or 85% RH as per ASTM F2170.
- E. Environmental Limitations
 - 1. Comply with requirements of athletic flooring material supplier's requirements.
 - 2. Adhere to all MSDS requirements for materials employed in the work. Protect all persons

from exposure to hazardous materials.

- F. After synthetic floors are installed and the game lines painted, area to be kept locked by general contractor to allow curing time for system. No other trades or personnel are allowed on floor until accepted by owner.

1.5 WARRANTY

- A. Connor warrants that the materials it has supplied will be free from manufacturing defects for a period of one year. The foregoing warranty is in lieu of and excludes all other warranties not expressly set forth herein, whether expressed or implied in operation of law or otherwise, including, but not limited to, any implied warranties of merchantability or fitness. This warranty is expressly limited to the flooring materials (goods) supplied by Connor. This warranty does not cover floor damage caused (wholly or in part) by fire, winds, floods, moisture, other unfavorable atmospheric conditions or chemical action, nor does it apply to damage caused by ordinary wear, misuse, abuse, negligent or intentional misconduct, aging, faulty building construction, concrete slab separation, faulty or unsuitable subsurface or site preparation, settlement of the building walls or faulty or unprofessional installation of Connor flooring systems.
- B. Connor shall not be liable for incidental or consequential losses, damages or expenses directly or indirectly arising from the sale, handling or use of the materials (goods) or from any other cause relating thereto, and their liability hereunder in any case is expressly limited to the replacement of materials (goods) not complying with this agreement or, at their election, to the repayment of, or crediting buyer with, an amount equal to the purchase price of such materials (goods), whether such claims are for breach of warranty or negligence. Any claim shall be deemed waived by buyer unless submitted to Connor in writing within 30 days from the date buyer discovered, or should have discovered any claimed breach.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. ElastiRoll/ElastiMat™ – Flooring consisting of polymeric bound VULCANIZED recycled rubber mixed with EPDM granules and Nike Grind.
 - 1. Colors – select from various colors.
 - 2. Physical Properties
 - a. Density – Shore A (ASTM D-297) 0.67 min. g/cm³
 - b. Taber Abrasion (ASTM C-501 – 1kb wt. 7000 cycles) 6% wt. loss
 - c. Compression Set (ASTM D-395 method B) 36% max
 - d. Tensile Strength (ASTM D-412) 247 min PSI
 - e. Elongation (ASTM D-412) 75% min
 - f. Chemical Resistance (ASTM F-925) No change
 - g. Acoustic Properties (ASTM E-423) NRC = 0.10
 - h. Weight 8mm= 2 lb/ft²
 - i. Tear Resistance (ASTM D-624) 79 min PPI
 - j. Coefficient of Friction (ASTM D-2047) 0.9 min, Wet or Dry
 - k. Ozone Resistance (ASTM D-1149-50 pphm) (70 hours @ 104° F) No effect
 - l. Stain Resistance Good
 - m. Spike Resistance Excellent
- B. Sizes
 - 1. ElastiRoll™ – 4' x 15' to 50'
 - 2. ElastiMat™ – 36" x 36"

- C. Thickness – 8mm
- D. ElastiRoll/ElastiMat™ Adhesive – One-component urethane as supplied by Connor.
 - 1. Optional Adhesive (**specify or delete**) – Two-component epoxy for questionable substrates as directed.
- E. Optional Base (**specify or delete**) - Vinyl wall base 4" high; select from supplier standard colors.

PART 3 - EXECUTION

3.1 INSPECTION

- A. Inspect concrete slab for proper tolerance and dryness. Test moisture vapor transmission of concrete flooring by means of a Calcium Chloride Test per ASTM 1869-98 or in-situ probes per ASTM F2170. Report any discrepancies to general contractor.
- B. Concrete slab shall be broom cleaned by general contractor.
- C. Installer (Flooring Contractor) shall approve and document all working conditions provided in General Specifications prior to commencement of installation.

3.2 INSTALLATION

- A. ElastiMat™
 - 1. Square the room or area to be installed.
 - 2. Mark the floor off in quarters.
 - 3. Thoroughly mix the one-component urethane adhesive and apply directly to the concrete subfloor with notched trowel per manufacturer's instructions.
 - 4. Place tile firmly into adhesive and butt the adjacent tiles.
 - 5. Lay the tile in straight tile pattern or broken joint pattern.
 - 6. Only apply as much adhesive as can be covered in 20 minutes.
 - 7. Roll with medium size roller. When floor is complete, roll again.
 - 8. Wipe adhesive that oozes between seams with recommended solvent.
- B. ElastiRoll™
 - 1. Unroll ElastiRoll™ and allow it to relax. Do not cut to final dimensions until laid into adhesive.
 - 2. Thoroughly mix the one-component urethane adhesive and apply directly to the concrete subfloor with a notched trowel per manufacturer's instructions.
 - 3. Install ElastiRoll™ into freshly applied adhesive wall to wall, scribing and fitting neatly at walls, around columns, and around door frames. Do not allow compression fit at any seams. Roll with medium size roller. When floor is complete, roll again.
 - 4. Wipe adhesive that oozes between seams with recommended solvent.
- C. Wall base (**optional**) – Install vinyl base anchored to walls with base cement.
- D. Remove all excess and waste materials from the area of work. Dispose of empty containers in accordance with federal and local statutes.

END OF SECTION 09624