

## SECTION 09622

### RESILIENT SPORTS-FLOOR COVERINGS

#### PART 1 - GENERAL

##### 1.01 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

##### 1.02 SUMMARY

- A. This Section includes the following:
  - 1. Cushioned sheet vinyl floor covering.
  - 2. Water resistant underlayment.
- B. Related Sections include the following:
  - 1. Division 9 Section "Wood Sports -Floor Assemblies" for resilient wood flooring.
  - 2. Division 9 Section "Resilient Flooring" for resilient floor coverings installed in areas other than athletic-activity spaces, wall base and accessories installed with floor coverings.
- C. Alternates: Refer to Division 1 Section "Alternates" for description of Work in this Section affected by alternates.

##### 1.03 SUBMITTALS

- A. General: Submit in accordance with Section 01300.
- B. Product Data: For each type of product indicated.
- C. Shop Drawings: Show installation details and locations of the following:
  - 1. Layout, colors, widths, and dimensions of game lines.
  - 2. Seam locations.
- D. Samples: For each type, color, and pattern of floor covering indicated, **6-inch- (150-mm-)** square Samples of same thickness and material indicated for the Work.
  - 1. Game-Line and Marker-Paint Samples: Include charts showing available colors and glosses .
  - 2. Seam Samples: For each vinyl sheet floor covering color and pattern required; with seam running lengthwise and in center of **6-by-9-inch (150-by-230-mm)** Sample applied to a rigid backing and prepared by Installer for this Project.
- E. Qualification Data: For sheet vinyl floor covering Installer.
- F. Maintenance Data: For floor coverings to include in maintenance manuals.

##### 1.04 QUALITY ASSURANCE

- A. Sheet Vinyl Installer Qualifications: An experienced installer who has completed sheet vinyl floor covering installations using seaming methods indicated for this Project and similar in material, design, and extent to that indicated for this Project, who is acceptable to manufacturer, and whose work has resulted in installations with a record of successful in-service performance.

## 1.05 DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials in original packages and containers, with seals unbroken, bearing manufacturer's labels indicating brand name and directions for storing.
- B. Store materials to prevent deterioration. Store rolls upright.

## 1.06 PROJECT CONDITIONS

- A. Adhesively Applied Underlayment:
  - 1. Maintain temperatures within range recommended in writing by manufacturer, but not less than **70 deg F (21 deg C)** or more than **95 deg F (35 deg C)**, in spaces to receive floor coverings during the following time periods:
    - a. 48 hours before installation, unless longer period is recommended in writing by manufacturer.
    - b. During installation.
    - c. 48 hours after installation, unless longer period is recommended in writing by manufacturer.
  - 2. After postinstallation period, maintain temperatures within range recommended in writing by manufacturer, but not less than **55 deg F (13 deg C)** or more than **95 deg F (35 deg C)**.
  - 3. Close spaces to traffic during floor covering installation.
  - 4. Close spaces to traffic for 48 hours after floor covering installation, unless manufacturer recommends longer period in writing.
- B. Install floor coverings after other finishing operations, including painting, have been completed.

## PART 2 - PRODUCTS

### 2.01 SHEET VINYL FLOOR COVERING

- A. Product: Taraflex Sport M with Isolsport underlayment; Gerflor/Taraflex Sports Flooring.
- B. Sport-Floor Covering Materials and Construction: Synthetic sports-floor covering comprised of a pure homogenous vinyl surface layer, 2.1 mm thick, calendared and grained, bonded to a closed-cell foam cushioned backing, and reinforced with a non-woven fiberglass mesh interlayer. Provide fungistatic and bacteriostatic treatment during manufacturer for entire thickness of sports-floor covering. Wear layer shall be treated with a photoreticulated, polyurethane, anti-dirt treatment applied by a high-pressure electrostatic process and UV cured.
  - 1. Thickness: 1/4 inch (6.5 mm).
  - 2. Roll Width: Manufacturer's standard.
  - 3. Traffic-Surface Texture: Slight stipple.
  - 4. Color: As selected by Architect from manufacturer's full range.
- C. Underlayment: Separate resilient fiberglass moisture disbursement underlayment.
  - 1. Thickness: 3/64 inch (1.5 mm).
  - 2. Roll Width: 6'-6" (2 m).
- D. Installation Method: Loose laid sports-floor covering over adhesively applied underlayment.
- E. Seaming Method: Heat welded.
- F. Accessories:
  - 1. Trowelable Leveling and Patching Compound: Latex-modified, hydraulic -cement-based formulation approved by floor covering manufacturer.
  - 2. Adhesives: Water-resistant type recommended in writing by manufacturer for substrate and conditions indicated.

3. Heat-Welding Bead: Solid-strand product of floor covering manufacturer matching field color of floor.
4. Game-Line and Marker Paint: Complete system including primer, if any, compatible with floor covering and recommended in writing by floor covering and paint manufacturers for use indicated.
  - a. Colors: As selected by Architect from manufacturer's full range of colors.
5. Wall Base: Johnsonite Rubber Vent-Cove Base, preformed inside and outside corners.
  - a. Adhesives: Johnsonite wall base and contact adhesives.
  - b. Color: Black.

## PART 3 - EXECUTION

### 3.01 EXAMINATION

- A. Examine substrates, with Installer present, for compliance with requirements for installation tolerances, moisture content, and other conditions affecting performance.
  1. Verify that finishes of substrates comply with tolerances and other requirements specified in other Sections and that substrates are free of cracks, ridges, depressions, scale, and foreign deposits.
  2. If unacceptable conditions are encountered, prepare written report, endorsed by Installer, listing conditions detrimental to performance of work.
- B. Concrete Slabs: Verify that concrete slabs comply with requirements specified in Division 3 Section "Cast-in-Place Concrete."
  1. Check flatness by transit or laser.
  2. Use trowelable leveling and patching compound to fill cracks, holes, and depressions in substrates.
  3. Grind high spots as specified in Division 3 Section "Cast-In-Place Concrete" until substrate is acceptable to the sports-floor covering Installer.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

### 3.02 PREPARATION

- A. Prepare substrates according to manufacturer's written recommendations to ensure adhesion of floor covering underlayment.
- B. Concrete Substrates: Prepare according to ASTM F 710.
  1. Verify that substrates are dry and free of curing compounds, sealers, and hardeners.
  2. Alkalinity and Adhesion Testing: Perform tests recommended in writing by manufacturer. Proceed with installation only after substrates pass testing.
  3. Moisture Testing:
    - a. Perform tests recommended in writing by manufacturer. Proceed with installation only after substrates pass testing.
- C. Remove substrate coatings and other substances that are incompatible with adhesives and that contain soap, wax, oil, or silicone, using mechanical methods recommended in writing by manufacturer. Do not use solvents.
- D. Move floor coverings, underlayments, and installation materials into spaces where they will be installed at least 48 hours in advance of installation, unless manufacturer recommends a longer period in writing.
  1. Do not install floor coverings until they are same temperature as space where they are to be installed.
- E. Sweep and vacuum clean substrates to be covered by floor coverings immediately before installation. After cleaning, examine substrates for moisture, alkaline salts, carbonation, and dust. Proceed with installation only after unsatisfactory conditions have been corrected.

### 3.03 FLOOR COVERING INSTALLATION, GENERAL

- A. Comply with manufacturer's written installation instructions.
- B. Scribe, cut, and fit floor coverings to butt neatly and tightly to vertical surfaces, equipment anchors, floor outlets, and other interruptions of floor surface.
- C. Extend floor coverings into toe spaces, door reveals, closets, and similar openings, unless otherwise indicated.
- D. Maintain reference markers, holes, and openings that are in place or marked for future cutting by repeating subfloor markings on floor coverings. Use nonpermanent, nonstaining marking device.
- E. Adhere underlayment to substrates using a full spread of adhesive applied to substrate to comply with adhesive and floor covering manufacturers' written instructions, including those for trowel notching, adhesive mixing, and adhesive open and working times.
  - 1. Provide completed installation without open cracks, voids, raising and puckering at joints, telegraphing of adhesive spreader marks, and other surface imperfections. Heat weld seams for permanent tight joints that do not open or gap.

### 3.04 UNDERLAYMENT INSTALLATION

- A. Install underlayment in accordance with manufacturer's printed instructions.
- B. Unroll underlayment and allow it to stabilize before cutting and fitting.
- C. Cut and adjust underlayment prior to installation of sports flooring.
- D. Adhere underlayment to concrete at door and corridor openings to permit rolling loads from displacing finish flooring.

### 3.05 SHEET FLOOR COVERING INSTALLATION

- A. Unroll sheet floor coverings and allow them to stabilize before cutting and fitting.
- B. Lay out sheet floor coverings as follows:
  - 1. Maintain uniformity of floor covering direction.
  - 2. Minimize number of seams; place seams in inconspicuous and low-traffic areas, at least **6 inches (152 mm)** away from parallel joints in floor covering substrates.
  - 3. Match edges of floor coverings for color shading at seams.
  - 4. Avoid cross and butt seams.
  - 5. Hold back edges at room perimeter.
- C. Seams: Prepare and finish seams to produce surfaces flush with adjoining floor covering surfaces.
  - 1. Heat-Welded Seams: Comply with ASTM F 1516. Rout joints and use welding bead to permanently fuse sections into a seamless floor covering.
- D. Wall Base: Install continuous vented wall base in accordance with manufacturer's instructions.

### 3.06 GAME (LANE) LINES

- A. Mask floor coverings at game (lane) lines, and apply paint to produce sharp edges.
  - 1. Apply game (lane) lines in widths and colors according to requirements required by the Owner.

3.07 CLEANING AND PROTECTING

- A. Perform the following operations immediately after completing floor covering installation:
  - 1. Remove adhesive and other blemishes from floor covering surfaces using cleaner recommended in writing by floor covering manufacturer.
  - 2. Sweep and vacuum floor coverings thoroughly.
  - 3. Do not wash floor coverings until after time period recommended in writing by manufacturer.
  - 4. Damp-mop floor coverings to remove marks and soil using method and cleaner recommended in writing by floor covering manufacturer.
  
- B. Protect floor coverings from mars, marks, indentations, and other damage from construction operations and placement of equipment and fixtures during remainder of construction period. Use protection methods recommended in writing by floor covering manufacturer.
  - 1. Do not move heavy and sharp objects directly over floor coverings. Protect floor coverings with plywood or hardboard panels to prevent damage from storing or moving objects over floor coverings. Slide or roll objects over panels without moving panels.

END OF SECTION