



Action Herculan TC *Competition*TM Synthetic Tennis Surfacing System

TENNIS COURT SURFACING SPECIFICATION

HERCULAN TC Competition

PART 1 - GENERAL

1.01 DESCRIPTION

- A. A tennis surfacing system comprised of a two-component polyurethane surface that is field applied in a seamless monolithic application. Total system profile height 2mm.

1.02 QUALITY ASSURANCE

- A. All system component parts must be supplied by Action Floor Systems, LLC of Mercer WI.
- B. The flooring contractor must be approved by Action Floor Systems, LLC of Mercer WI.
- C. Flooring system shall be independently verified to meet or exceed the SCORES criteria for environmental design and athletic performance. Sustainable Construction Of Renewable Engineered Surfaces.
- D. FloorScore – Indoor Air Quality Certified to SCS-EC10.3-2014 v3.0
Conforms to the CDPH/EHLB Standard Method v1.1-2010 (California Section 01350), effective January 1, 2012, for the school classroom and private office parameters when modeled as Flooring. Registration # SCS-FS-04375.
- E. Accredited “Ecospecifier” product for achievement of Green Building Rating Tool Credits.

1.03 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 court area. The building must be reasonably dry; all openings must be closed in; permanent heating and air conditioning installed and working before, during, and after installation.
- B. The general contractor / owner shall provide an area where the stored materials can be maintained at a minimum of 65 degrees and under 80% relative humidity. Ideal installation and storage conditions are the same as those that will prevail when the building is occupied.
- C. Others will provide a concrete sub floor to the flooring contractor finished, steel troweled, and level to 1/8” in any ten-foot radius. High spots shall be ground level and low spots filled with an approved leveling compound. No concrete curing or hardening agents shall be applied to the concrete sub floor. The concrete shall be clean, flat, dry, and free from dirt, dust, oil, grease, paint, alkali, and concrete curing agents, hardening and parting compounds, old adhesive residue, or other foreign materials.
- D. Court installation shall not begin until all sub-contract work that would cause damage, dirt, dust, or interruption of normal installation. The installation area shall be closed to all traffic and activity for a period to be set by the flooring contractor.
- E. ENVIRONMENTAL LIMITATIONS
 - 1. Comply with requirements of athletic flooring material suppliers.
 - 2. Adhere to all MSDS requirements for materials. Protect all persons from exposure to hazardous materials.

3. LEED - Leadership in Energy and Environmental Design, Comply with EQ 4.1 and EQ 4.2 principals. Utilize high postindustrial recycled content resilient base mat.
- F. Protect the work during and after the installation process, until acceptance by the owner or agents.

1.04 WARRANTY

- A. **MATERIALS WARRANTY:** Action Floor Systems, LLC, warrants that the flooring materials it shipped for installation at (the “Project”) will be free from defects for a period of 1 year. The sole and exclusive remedy under this materials warranty shall be the replacement of defective materials by Action Floor Systems, LLC, and repair of any damages to flooring resulting directly from defective materials.
- B. **INSTALLATION WARRANTY:** The flooring installer “Installer” warrants that the installation of the flooring at the Project will be free from defects in workmanship and in any materials originating with flooring installer (such as, for example, subflooring) for the Warranties Period. The sole and exclusive remedy under this installation warranty shall be repair of damages to floor resulting directly from defective installation, or defective materials originating with Installer, and replacement of any materials resulting from defective installation.
- C. This warranty does not cover damage caused by fire, winds, floods, chemicals, or other abuse, or by failure of other contractors to adhere to specifications, or neglect of reasonable precautions to provide adequate ventilation during hot, humid weather. This warranty also excludes damage to floors due to ordinary wear and tear, faulty construction of the building (other than the flooring contractor), separation of the concrete slab underlying the floor, settlement of the walls, or use of unapproved cleaners or sealers on the floor.

PART 2 - PRODUCTS

2.01 MATERIALS

- A. All polyurethane components shall be supplied by Action Floor Systems, LLC
- B. HERCULAN TROWEL COAT (SX 500) two-component, pigmented, self-leveling polyurethane compound applied monolithically over the base mat to a 1.5mm thickness. Color to be manufacturer’s standard color.
- C. HERCULAN WEAR COAT Court “S” two-component polyurethane squeegee applied tennis surface applies at .5mm. Colors to be selected from manufacturer’s standard color chart.
- D. Game line paint shall be HERCULAN Court “S” two-component polyurethane.
- E. Optional base (specify or delete). Vinyl wall base; 4” high, select from standard colors.
- F. Technical Information
Technical Information
Angled Ball Behavior (EN 13865, ITF Cs/01010-04-092) medium
Surface Hardness (DIN 53505, ASTM D-2240) Shore A=80 +/-
Impact Resistance (EN 1517-1999, DIN 18032) 11Nm

Tensile Strength (EN ISO 527-1, DIN 53455)		8 MPa
Elongation at Break (EN ISO 527-1, DIN 53455)		150-160%
Tear Strength (DIN 53515)		25 N/mm
Resistance to Rolling Load (1,500N) EN 1517		<0.5mm
Resistance to Indentation EN 1516		<0.5mm
Friction EN 13036-4		80-110
Flammability (DIN 51960)		Class 1 (not flammable)
K. VOC Emission Requirements, grams per liter		
1. Polyurethane	0	Grams per Liter
2. Color Coating Urethane Paint	28	Grams per Liter
3. Line Paint	28	Grams per Liter
L. Floor Score: Measured Concentration of Total Volatile Organic Compounds (TVOC): Less than/equal to 0.5 mg/m3 (in compliance with CDPH/EHLB Standard Method v1.1-2010).		

PART 3 - EXECUTION

3.01 INSPECTION

- A. Inspect concrete/asphalt slab of proper tolerance and dryness, reporting in writing any discrepancies to the general contractor, architect, and/or owner.
- B. All work required to put the concrete slab in acceptable condition for installation shall be the responsibility of the general contractor.
- C. The slab shall be broom cleaned by the general contractor, free of all debris and/or contaminants.

3.02 INSTALLATION

- A. Slab shall be clean and free of sealers, dirt, oil, paint, and any material that, in the opinion of the flooring installer, will adversely affect the HERCULAN material bonding to the concrete or the overall installation (refer to 1.03 Working Conditions).
- B. Thoroughly mix two-component trowel coat. Apply mixed material using recommended notched trowel, or notched squeegee to a thickness of 1.5mm. Materials must be applied continuously to create a seamless surface. Allow coat to cure before proceeding to next step. Repair any imperfections in the finished surface. Clean floor with a vacuum, broom, or dry dust mop. Tack clean prior to proceeding.
- C. Thoroughly mix two-component Court "S" polyurethane wear coat. Apply wear coat material with a squeegee at the specified rate. Allow wear coat to cure before applying second coat of Court "S" with a squeegee. Allow coat to cure.
- D. Using the highest quality masking tape, tape the floor. Thoroughly mix the two-component game line paint be for use. Remove all game line tape prior to the paint curing.
- E. If wall base is specified, install vinyl base to walls by using the proper cement.

3.03 CLEAN UP

- A. Clean up all unused materials and debris and remove.

3.04 MAINTENANCE

- A. New floor initial maintenance.
 - 1. IMPORTANT Allow new floor or newly recoated floor to cure at least 96 hours.
 - 2. Sweep floor thoroughly. Do not use sweeping compounds.
 - 3. Mix Action Floor Systems, LLC approved cleaner with clean water to achieve desired water-to-cleaner ratio, with an automatic scrubber.
 - 4. Allow solution to dry on floor prior to use.
- B. Upon completion of floor installation, the owners, attendants or individuals in charge and responsible for the upkeep of the building are to see that all care maintenance are followed in accordance with Action Floor Systems, LLC guidelines. Failure to follow care and maintenance guidelines may void warranty.

IT IS THE POLICY OF ACTION FLOOR SYSTEMS, LLC. TO CONTINUALLY UPDATE AND IMPROVE OUR PRODUCT LINES. THEREFORE, WE RESERVE THE RIGHT TO CHANGE, MODIFY OR DISCONTINUE SYSTEMS, SPECIFICATIONS AND ACCESSORIES OF ALL PRODUCTS AT ANY TIME WITHOUT ANY NOTICE OR OBLIGATION TO ANY PURCHASERS.

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