



Action Herculan IG[™] Resinous Floor System

SPORTS FLOOR SPECIFICATIONS

HERCULAN IG

PART 1 - GENERAL

1.01 DESCRIPTION

- A. A solvent free, seamless, decorative, self-leveling, flooring system. It provides a decorative, impermeable, durable and easy to maintain floor system

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.

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 floor 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. Flooring 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.
- F. Protect the work during and after the installation process, until acceptance by the owner or agents.

1.04 WARRANTY

- A. Action Floor Systems, LLC warrants the material it ships to be free from defects in materials and workmanship for a period of one (1) year, and the flooring contractor warrants the installation of the flooring to be free from defects in materials and workmanship for a period of one (1) year. The exclusive remedy under this warranty shall be replacement of defective material by Action Floor Systems, LLC or

correction of defective installation by the flooring contractor. All implied warranties of merchantability or fitness for intended use are limited to the period of warranty. This warranty excludes consequential damages.

- B. 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 epoxy components shall be supplied by Action Floor Systems, LLC.
- B. EPOXY BASE RESIN (FC 4000 Plain), two-component, it shall be applied at a rate of approximately 3.6/lbs / cubic foot minimum.
- C. AGGREGATE
 - 1. Acrylic color chips. Colors to be selected from manufacturer's color chart.
 - 2. Decorative Quartz. Colors to be selected from manufacturer's color chart.
- D. EPOXY TOP COATING (EP DUO), two-component, it shall be applied at a rate of 0.72 lbs. / Sq. meter.
- E. Optional base (specify or delete). Vinyl wall base; 4" high, select from standard colors.
- F. Technical Information Technical Information

Solid Content (EN-ISO 11890)	~100%
Compression Strength (EN-ISO 604)	76 MPa (11,022 PSI)
E-Modulus (EN-ISO 604)	6200 MPa (899,234 psi)
Shore D Hardness (DIN 53505, EN-ISO 868)	>80
Fire Class (EN 13501-1)	Bf1-S1
Wear Resistance (DIN 53516/ISO 4649)	45 mg (CS 1000/1000)
Friction (DIN 51130)	R12
Material Type	Blend of specially selected high End epoxy resins, emission free

Adhesion strength on concrete (EN-ISO 4624)	> 2 N/mm ²
Adhesion strength on cementitious (EN-ISO 4624)	> 2 N/mm ²
Adhesion strength on anhydrite (EN-ISO 4624)	> 2 N/mm ²
Adhesion strength on steel (EN-ISO 4624)	> 2 N/mm ²
Adhesion strength on ceramic tiles (EN-ISO 4624)	> 2 N/mm ²

PART 3 - EXECUTION

3.01 INSPECTION

- A. Inspect concrete slab of proper tolerance and dryness, reporting in writing any discrepancies to the general contractor.
- B. All work required to put the concrete slab in acceptable condition shall be the responsibility of the general contractor.

- C. The slab shall be broom cleaned by the general contractor.

3.02 INSTALLATION

- A. Concrete 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. Integral cove base, (optional)
 - a. Install integral speed base according to manufacturers' specification.
 - b. Lightly abrade base with 80 grit sanding paper
 - c. Clean surface, apply mixed Herculan FC 4000 material with brush
 - d. Broadcast color chips on to wet material until fully covered.
 - e. Allow to dry, clean excess chips
 - f. Apply mixed two-component clear coat with roller
- C. Mix the two-component Herculan FC 4000 and apply directly to the concrete sub floor at the specified rate with the specified notched trowel.
- D. Herculan Color Chips are broadcast on the floor after 15 minutes and before 45 minutes after installing Herculan FC 4000
- E. After curing, the excess Color Chips are removed by steel scraper or broom. Use a broom or vacuum to remove excess Color chips prior to installing topcoats.
- F. Thoroughly mix two-component topcoat. Apply mixed material using recommended roller. Materials must be applied continuously to create a seamless surface. Allow topcoat to cure.
- G. 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.
 - 4. Using a new mop, damp mop the entire floor with cleaner/water mix.
- 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.