SportFlex Standard

Acrylic Tennis & Recreational Sport Surface

Manufacturer's Specifications

PART 1 – GENERAL

1.01 Work Included

A. Scope: This guide specification covers the application of the SportFlex Standard system. The SportFlex Standard system is designed and used for the protection, beautification and surface space for a variety of all-weather athletic and recreational surfaces, including tennis courts, basketball courts, playgrounds, handball courts, paddle tennis courts, etc. SportFlex products should only be applied to properly prepared concrete or asphalt substrates. The SportFlex Standard system is comprised of SportFlex Acrylic Deep Patch, SportFlex Acrylic Resurfacer, SportFlex ColorCoat Concentrate, SportFlex Line Prime and SportFlex Textured White Line Paint. When applying the SportFlex Standard system to a concrete substrate SportFlex Epoxy Concrete Primer, or if approved, SportFlex Acrylic Concrete Primer, is required.

B. Court Construction: Refer to the American Sports Builders Association (ASBA) manual Tennis Courts: A Construction & Maintenance Manual for court construction details. This publication may be obtained by calling the ASBA at 443-640-1042 or visiting www.sportsbuilders.org.

1.02 Quality Assurance

A. All tennis court surfacing materials shall be SportFlex as manufactured by FlexGround, LLC (FLEXGROUND).

B. All work shall be done in accordance with American Sports Builders Association (ASBA) guidelines.

C. The contractor shall record the batch number of each product used on the site and maintain it through the warranty period.

D. The contractor shall provide the inspector, upon request, an estimate of the volume of each product to be used on the site.

1.03 Submittals

A. Submit one set of FLEXGROUND "SportFlex Standard system Specifications".

B. Submit system components Technical Data Sheets (TDS) and one SportFlex Color Chart.

C. Submit current Safety Data Sheets.

1.04 Working Conditions and Limitations

A. Asphalt and concrete substrates shall be allowed to cure a minimum of 30 days before application of any coatings.

B. The substrate shall be CLEAN and DRY before coatings are applied. The surface of the substrate shall be inspected and made sure to be free of grease, oil, dust, dirt and other foreign matter before any coatings are applied.

C. Water used in all mixtures shall be fresh and potable.

D. No part of the surfacing system shall be applied during a rainfall, or when rainfall is imminent.

E. Do not apply coatings to a cold surface. Surface and air temperatures must be a minimum of 50ºF (10ºC) and rising.

F. Do not apply coatings if extremely high humidity prevents drying.

G. No coatings are to be applied if surface temperature exceeds 130°F (54°C).

H. All materials shall be delivered to the job site in sealed containers with the manufacturer's label affixed.

I. Color(s) of acrylic color coating system are to be selected by owner from manufacturer's product color card.

J. If all the above conditions are met, surfacing materials shall have a one-year limited warranty as supplied by the manufacturer.

1.05 Warranty

FLEXGROUND warrants, subject to limitations, exclusions, terms and conditions contained herein, that the material supplied by FLEXGROUND, and which is covered by this Warranty, will not fail due to defects for one (1) year. FLEXGROUND's maximum responsibility under this Limited Warranty shall be limited to the replacement of material in a quantity not in excess of the quantity of material furnished by FLEXGROUND in connection with the project. No salesman or other employee or agent of FLEXGROUND is authorized to bind FLEXGROUND by any agreement, warranty, promise, or understanding not herein expressed.

This Limited Warranty is made and given in lieu of all other warranties and conditions, expressed or implied, statutory or otherwise, including but not limited to any warranties or conditions of merchantability, durability and of fitness for a particular purpose. Under no circumstances shall FLEXGROUND be liable or otherwise obligated for indirect, incidental or consequential damages of any nature or kind whatsoever, including damages arising in contract, tort, product liability or otherwise.

Acrylic, all-weather tennis and athletic surfacing systems are designed and used to visually enhance asphalt and concrete substrates while providing a desired surface texture, surface pace and/or speed of play. SportFlex systems and system components may be used to level surface depressions, fill substrate cracking, smooth surface roughness and make other such adjustments to a new or existing surface/substrate.

However, acrylic all-weather tennis and athletic surfacing systems are NOT capable of solving the problems and/or forces associated with cracked, deteriorating, or damaged substrates.

PART 2 – PRODUCTS

2.01 SportFlex Standard System Materials

A. All components of SportFlex Standard system shall be supplied by FLEXGROUND. ColorCoat system components shall not contain ANY lead, mercury, nor any heavy metals, PCB, or formaldehyde.

B. SportFlex Epoxy Concrete Primer (concrete courts only). Shall be a two-component, 100% solids, solvent-free epoxy primer. SportFlex Acrylic Concrete Primer may be substituted if approved by owner and/or design professional where hydrostatic pressure, efflorescence and staining are not a concern.

   i. Percent Solids by Weight 98% (minimum)

   ii. Weight 9.01 lbs./gallon

C. SportFlex Acrylic Resurfacer. Acrylic-based emulsion used for smoothing rough pavements. 1 to 2-coats as needed. SportFlex NuSurf is recommended for use on new asphalt pavements and is an acceptable substitute for Acrylic Resurfacer.

   i. Percent Solids by Weight 52% (minimum)

   ii. Weight 10.68 lbs/gallon

D. SportFlex ColorCoat Concentrate textured batch mixture. Pigmented wear-resistant acrylic emulsion. 2-coats required. Advantage SportFlex factory textured color or SportFlex Colorflex textured batch mixture are acceptable substitutes.

   i. Percent Solids by Weight 49 % (minimum)

   ii. Weight: 12.9 (+/- 3) lbs/gallon

E. Optional SportFlex ColorCoat Concentrate finish batch mixture. Pigmented wear-resistant acrylic emulsion. 1-coat. SportFlex Colorflex finish batch mixture is an acceptable substitute. A finish coat will speed up the surface pace of the court.

   i. Percent Solids by Weight 49 % (minimum)

   ii. Weight: 9.47-9.52 lbs/gallon

F. SportFlex Line Prime. Clear drying acrylic emulsion line primer. 1-coat required.

   i. Percent Solids by Weight 29%

   ii. Weight: 8.9 lbs/gallon

G. SportFlex Textured White Line Paint. Factory textured, wear-resistant acrylic emulsion line marking paint. 1-2 coats as required.

   i. Percent Solids by Weight 67% (minimum)

   ii. Weight: 11.4 lbs/gallon

PART 3 – EXECUTION

3.01 Inspection

A. Inspect concrete or asphalt substrate for dryness. Report any discrepancies to general contractor.

B. Surface of substrate shall be cleaned by general contractor as required.

C. Surfacing contractor to approve site and surface conditions prior to proceeding with application of any coatings.

3.02 Installation

A. Primer (for concrete substrates only): When installing the SportFlex Standard system over concrete, SportFlex Epoxy Primer must be applied as the first layer of the system. SportFlex Epoxy Concrete Primer is mixed by pouring the "B" component into the "A" component and mixing using a low speed jiffy mixer (400 to 600 rpm) for 2 minutes. Scrape down the sides of the bucket and mix for an additional minute. Do not incorporate air when mixing. Spread the mixed primer on the substrate using a high-quality, medium nap roller to achieve a total coverage of approximately 0.025 gal/yd_2 (0.12 kg/m_2 - 360 ft_2/gal). The working time for the Epoxy Primer is approximately 40 – 50 minutes and is reduced in high temperatures. Lightly broadcast 40 to 60 mesh silica sand onto the wet primer at the rate of 5 pounds per 100 sq. ft. (0.24 kg/m_2) to create a rough texture. Allow 5 to 7 hours drying time before proceeding. Acrylic Concrete Primer may be substituted under certain conditions when approved by owner and/or design professional. If approved for use, see Acrylic Concrete Primer technical data sheet for application details.

B. Patching: Once the surface has been thoroughly cleaned and is free of all loose material, dirt, or dust, the court shall be flooded and allowed to drain a minimum of 30 minutes and a maximum of 1 hour. Any area that holds water (birdbaths) in a depth greater than 1/16 inch (1.6 mm or the thickness of a nickel) shall be outlined and patched.

   i. Surface Leveling: Birdbaths shall be leveled using a SportFlex Acrylic Deep Patch court patch binder slurry. Prime area to be patched with a 50/50 mixture of SportFlex Acrylic Deep Patch and water. Primer shall be brushed into place and allowed to dry prior to patching. Patch mix shall consist of SportFlex crylic Deep Patch, 50-mesh sand and Type1 Portland Cement. Mix as per manufacturer directions.

ii. Crack Filling: Cracks shall be cleaned, primed, and filled using SportFlex Acrylic Resurfacer if cracks are 1/16 inch or less. If greater than 1/16 inch, SportFlex Acrylic Deep Patch court patch binder slurry should be used to fill cracks. Mix as per manufacturer's directions.

iii. All areas that are repaired/leveled/corrected using a court patch binder mixture shall be allowed to fully cure and then ground smooth and level with the substrate by stone or an acceptable mechanical method.

C. Filler Coat(s): Apply one coat of SportFlex Acrylic Resurfacer using a 24", 30" or 36" wide 70 Durometer flexible rubber squeegee. Batch mix shall consist of 55 gallons (260 kg) of SportFlex Acrylic Resurfacer, 30 to 40 gallons (115-130 kg) of potable water, and 600 to 900 pounds (270-400 kg) of clean, bagged silica sand (60 to 80 mesh). The application rate shall be 0.05-0.07 gal/yd^2 (0.29-0.40 kg/m^2 - 129-180 ft^2/gal) of undiluted SportFlex Acrylic Resurfacer per coat.
NOTE: If the asphalt is very porous, an optional 2nd application of SportFlex Acrylic Resurfacer may be applied. Each coat should be completely dry before applying subsequent coats. SportFlex Nusurf is an acceptable substitute for SportFlex Acrylic Resurfacer and is highly recommended for use on new asphalt pavements, older asphalt pavements with hairline surface cracking, slip-sheet/free-floating surfaces and/or repair methods over cushioned courts.

D. Textured Color Coats: Apply two coats of SportFlex ColorCoat Concentrate textured batch mixture using a 24", 30" or 36" 50 Durometer flexible rubber squeegee. Batch mix shall consist of 55 gallons (260 kg) of SportFlex ColorCoat Concentrate, 25 to 35 gallons (95-115 kg) of potable water and 300 to 450 pounds (135-203 kg) of clean, bagged silica sand (70 to 100 mesh). The application rate shall be 0.04-0.05 gal/yd^2 (0.23-0.29 kg/m^2 - 180-225 ft^2/gal) of undiluted ColorCoat Concentrate per coat. Each coat should be completely dry before applying subsequent coats. SportFlex ColorFlex is a highly recommended substitute for ColorCoat Concentrate on cushioned courts.

E. Optional Finish Color Coat: Apply one coat of SportFlex ColorCoat Concentrate finish batch mixture using a 24", 30" or 36" 50 Durometer flexible rubber squeegee. Batch mix shall consist of 55 gallons (260 kg) of ColorCoat Concentrate and 55 gallons (210 kg) of potable water. The application rate shall be 0.03-0.04 gal/yd^2 (0.17-0.23 kg/m^2 - 225-300 ft^2/gal) of undiluted ColorCoat Concentrate per coat. Each coat should be completely dry before applying subsequent coats. Allow topcoat to cure a minimum of 24 hours before applying game lines. SportFlex ColorFlex is a highly recommended substitute for ColorCoat Concentrate on cushioned courts. A finish coat WILL produce a faster surface pace.

F. Game Lines:

i. Wait a minimum of 24 hours after final color coat before applying line paint.

ii. All lines are to be applied by painting between masking tape with a paintbrush or roller according to U.S.T.A. and A.S.B.A. specifications.

iii. Prime masked lines with SportFlex Line Prime and allow a minimum drying time of 1-hour.

iv. Apply 1 to 2 coats as needed of SportFlex Textured White Line Paint with a brush or roller

v. Remove masking tape immediately after lines are dry.

vi. Allow lines to dry a minimum of 24 hours before allowing play on court.

G. Remove all excess and waste materials from the area of work. Dispose of empty containers in accordance with federal and local statutes.

3.03 Protection

A. Cure Time. No traffic or other trades shall be allowed on the surface for a period of one week following completion to allow for complete and proper cure of the finish.

B. Other Trades. It is the responsibility of the general contractor to protect the surface from damage by other trades before acceptance by the owner or the owner's authorized agent.

C. Do not allow surrounding sprinkler systems to spray water on the newly applied court surface for a period of one week after completion.

D. Do not place any benches, chairs, ball baskets, or any other type of court equipment on the newly applied court surface for a period of one week after completion.

E. Do not allow black soled shoes, bicycles, rollerblades, etc. on the court surface. Black scuff marks cannot be removed!

PART 4 – SITE (GENERAL)

A. Trailer/ Large truck access will be necessary for the installation. In the case that access for trailer/truck is not available the owner or general contractor will be responsible for transporting material to the job site.

B. Crew is responsible for protecting the surface only while on site. General Contractor or owner shall be responsible for the security of the surfacing overnight during installation, as well as during the surfacing's curing period upon completion of the install.

C. Crew will leave site clean and shall remove all trash and debris.

D. Owner/General contractor shall provide a dumpster for all waste and trash.