

TURNER COUNTY SCHOOLS
TENNIS COURT RENOVATIONS
ASHBURN, GEORGIA

SECTION 02791 - TENNIS COURT ACRYLIC SYNTHETIC SURFACING

PART 1 - GENERAL

RELATED DOCUMENTS:

Drawings and general provisions of Contract, including General and Supplementary Conditions and other Division-1 Specification sections, apply to this section.

SUMMARY:

Provide labor, materials, services, and equipment necessary to furnish and install an acrylic synthetic surface as indicated and as specified herein. Work includes, but is not limited to the following:

- Surfacing of tennis courts
- Painting of marking lines and stripes

Bidders are strongly encouraged to visit the site to verify surface conditions which are specified to be repaired. (**Contractors who submit a proposal herein shall be construed as acceptance of the existing surface as being acceptable for preparation/installation and performance of the materials herein specified.**)

SCOPE OF WORK:

Provide new surface for 10 () tennis courts at Turner County High School, Ashburn Georgia.

The work to be performed under this specification includes all labor, equipment, materials and supplies necessary for the installation of the tennis court surfacing on existing untreated/unsurfaced asphalt.

SUBMITTALS:

Product Data: Submit copies of manufacturer's specifications and installation instructions for items required. Include data substantiating that materials comply with specified requirements. Indicate that Installer has received copy of manufacturer's instructions.

Documents in Regard to Warranty

Letter from manufacturer of all materials attesting to the warranty length and limits. This must be signed by an officer of the organization.

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Letter of Warranty from the Installation Contractor for the time period and conditions as noted under "Warranty".

These documents shall be submitted to the Owner prior to final payments.

Warranty for materials and installation shall be for one year after Substantial Completion is issued.

Layouts for Tennis Courts (English)

Submit Drawings to show the tennis courts including line markings and other markings required in accordance with NFSHSA and U.S.T.A.

Marking paint colors by NFSHSA and U.S.T.A. recommendations.

Samples: Each bidder shall submit one sample, not less than 3" by 3" for each surface material. All samples shall represent the exact surfaces.

Provide written instructions for tennis court use and maintenance requirements in accordance with the warranty.

QUALITY ASSURANCE:

Installation of acrylic surfacing must be performed by a Contractor who has minimum of five (5) years experience in the field and can demonstrate successful completion of similar projects.

Contractor shall be a manufacturer certified installer of the material provided and installed.

WORKING CONDITIONS:

All work shall be done in accordance with American Sports Builders Association (A.S.B.A.) guidelines, including, but not limited to:

- Site Investigation
- Vegetation Control
- Site Preparation, Earthwork, Drainage and Subbase Preparation

Substrates shall be allowed to cure a minimum of 30 days before application of any coatings.

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.

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Water used in all mixtures shall be fresh and potable.

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

Do not apply coatings to a cold surface. Surface and air temperature must be a minimum of 50°F (10°C) and rising.

Do not apply coatings if extremely high humidity prevents drying.

No coatings are to be applied if surface temperatures exceed 130°F (54°).

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

Color(s) of acrylic color coating system is to be selected by the Architect from manufacturer's product color card.

PART 2 - PRODUCTS

MANUFACTURERS:

Manufacturers: Subject to compliance with requirements, provide products by one of the following:

Advanced Polymer Technology - Advantage Laykold System
California Products - Plexipave system - Fortified Plexipave ONLY
Nova Sports USA - Novacrylic Combination Surface II

Basis of requirement shall be the Advantage Laykold System.

Products of other manufacturers will be considered for acceptance provided they are equal to or exceed the material requirements and functional qualities of the specified product.

The Contractor shall submit a substitution request which includes all technical data for evaluation to the Architect for approval prior to bidding.

All components of the surfacing system shall be supplied by the submitted manufacturer. The surfacing system components shall not contain lead, mercury, nor any heavy metals, PCB or formaldehyde.

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LAYKOLD Acrylic Resurfacer shall be applied for smoothing rough pavements.

Two (2) coats.

LAYKOLD ColorCoat Concentrate textured batch mixture, Advantage Laykold factory textured color or Laykold Colorflex textured batch mixture.

Two (2) coats.

LAYKOLD Line Prime, Clear drying acrylic emulsion line primer.

One (1) coat.

LAYKOLD Textured White Line Paint. Factory textured, wear-resistant acrylic emulsion line marking paint.

One-Two (1-2) coats as required.

All coatings shall be pure acrylic, containing no asphaltic or tar emulsions, vinyl, alkyd or non-acrylic resins. The color system shall be factory-mixed compounds requiring only the addition of water at the job site. All materials shall be delivered to the job site in sealed containers with the manufacturer's label affixed.

Contractor shall conform to manufacturer's current specification. The surfacing system shall be complete and consist of components, blended and mixed in the prescribed manner, placed and installed with the recommended equipment to provide the best finished product available from the manufacturer.

PART 3 EXECUTION

INSPECTION:

Inspect substrate for dryness. Report any discrepancies to General Contractor.

Surface of substrate shall be cleaned by General Contractor as required.

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

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APPLICATION:

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 hours. 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.

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

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

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.

Filler Coats(s): Apply two coats of Layfold Acrylic Resurfacer using a 24", 30" or 36" wide 70 Durometer flexible rubber squeegee. Batch mix shall consist of 55 gallons (260 kg) of Laykold 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/yd² (0.29-0.40 kg/m² - 129-180 ft²/gal) of undiluted Laykold Acrylic Resurfacer per coat. Each coat should be completely dry before applying subsequent coats.

Textured Color Coats: Apply two coats of Advantage Laykold textured color concentrate batch mixture using a 24", 30" 50 Durometer flexible rubber squeegee. Batch mix shall consist of 30 gallons (170 kg) of Advantage Laykold and 15-20 gallons (55-75 kg) of potable water. The application rate shall be 0.06-0.07 gal/yd² (0.41-0.47 kg/m² - 130-150 ft²/gal) of undiluted Advantage Laykold per coat. Each coat should be completely dry before applying subsequent coats.

Each coat in this system must dry completely before next application. Between each coat, inspect entire surface. Any defects found shall be repaired. Scrape surface to remove any lumps, and broom or blow off all loose matter.

LINE MARKINGS:

Upon completion and acceptance of the tennis surface, this Contractor shall prepare and paint lines for tennis courts.

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

Prime masked lines and allow application to dry.

Paint lines with textured line paint and allow application to dry.

Remove masking tape immediately after lines are dry.

Protect adjacent areas and structures (fences, posts, sidewalks, buildings, etc.) which are not to be coated. In the event that coatings are applied to above, remove immediately before drying is complete.

COMPLETION:

Upon completion, the contractor shall insure proper removal of all construction debris, surplus materials, empty containers and wash water. The court shall be left secure so as to prevent vandalism.

PROTECTION:

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.

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.

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

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.

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

END OF SECTION 02791