

ADDENDUM NO 01
CITY OF FAIRHOPE

Bid No 001-16 Improvements to Stimpson Park Tennis Courts Re-bid

THE DOCUMENTS FOR THIS BID SHALL BE AMENDED, REVISED AND CHANGED IN THE FOLLOWING PARTICULARS:

CLARIFICATION:

1. Laykold Cushion Standard is to be used.
2. Must hold a current license from the Alabama Licensing Board for General Contractors with classification MU-Municipal & Utility and/or SC-Tennis Court License

CHANGE:

1. CHANGE BID OPENING FROM FEBRUARY 5, 2016 AT 11:00 A.M. CST TO FEBRUARY 19, 2016 AT 11:00 A.M CST.
2. REMOVE ITEM IX SCOPE AND SPECIFICATIONS
REPLACE WITH ITEM IX SCOPE AND SPECIFICATIONS rev1 (attached)
3. REMOVE BOTH LAYKOLD CUT SHEETS
REPLACE WITH BOTH LAYKOLD CUT SHEETS ATTACHED

Bidders are to sign and include signed **Addendum No.1** with submitted bid documents.

Acknowledged:

Company

By

Daniel P. Ames
Purchasing Manager
City of Fairhope
Posted: 1/26/16

**ITEM IX
SCOPE AND SPECIFICATIONS**

**Provided by Jade Consulting LLC
TENNIS COURTS**

SCOPE OF WORK

The project consists of the construction and completion of 6 additional tennis courts for Stimpson Park, located within the City of Fairhope, at 600 Morphy Ave, Fairhope, AL 36532.

SPECIFICATIONS

SECTION 321823.53 - Tennis Court Surfacing

GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes:
 - 1. Tennis court surfacing.
 - 2. Base materials.

- B. Related Sections:

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product indicated.
 - 1. Product specifications.
 - 2. System components Technical Data Sheets (TDS).
 - 3. Material Safety Data Sheets.
 - 4. ISO Quality Management System Certification.
 - 5. ITF surface classification

1.4 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For qualified factory-authorized service representative.
- B. Warranty: Sample of special warranty.

1.5 QUALITY ASSURANCE

- A. Soil testing: A geotechnical engineering firm shall be hired, by the **Engineer of Record** to perform soil testing to determine, at minimum, the following items:
 - 1. Depth and type of base material required.
 - 2. Drainage system requirements
- B. Pre-installation Conference: Conduct conference at Project site.

1. Review required testing, inspecting, and certifying procedures.

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

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

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

1.6 PROJECT CONDITIONS

A. Field Measurements: Verify layout information shown on Drawings in relation to property survey and existing structures. Verify dimensions by field measurements.

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

C. 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.

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

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

F. Do not apply coatings to a cold surface. Surface and air temperatures must be at least 50°F (10°C) and rising.

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

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

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

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

1.7 WARRANTY

A. Special Warranty: Manufacturer's standard form in which Installer agrees to repair or replace built elements that fail in materials or workmanship within specified warranty period

1. Warranty Period: One year from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 GENERAL

A. Provide surfacing system for a single manufacturer of a product that is equivalent to that indicated below. Product shall not contain any lead, mercury, nor any heavy metals, PCBs, or formaldehyde.

1. Basis-of-design product: Subject to approval, provide product that is equivalent or better than:

a. Laykold (or approved equal) Cushion Standard System, Standard System, materials include:

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

- a) Percent Solids by Weight 98% (minimum)
- b) Weight 9.01 lbs./gallon

- 2) Laykold (or approved equal) Acrylic Resurfacer. Acrylic based emulsion used for smoothing rough pavements. 1 to 2-coats as required. Laykold (or approved equal) NuSurf is recommended for use on new asphalt pavements and is an acceptable substitute for Acrylic Resurfacer.
 - a) Percent Solids by Weight 52% (minimum)
 - b) Weight 10.68 lbs/gallon
- 3) Laykold (or approved equal) Cushion Standard Granule. Acrylic emulsion fortified with 0.5-1.5mm EPDM rubber granules that add resiliency to a hard court surface. 2 to 4 coats required based on Cushion Standard system specified: Standard System - 2 coats Cushion Standard Granule, Standard System - 3 coats Cushion Standard Granule, and Supreme System - 4 coats Cushion Standard Granule
 - a) Percent Solids by Weight 47.9% (minimum)
 - b) Weight 8.34 lbs/gallon
- 4) Laykold (or approved equal) Cushion Standard Powder. Acrylic emulsion fortified with 0.0-0.5mm EPDM rubber powder used to fill, smooth and prepare the Cushion Standard Granule coats for the application of the color coats. 3 coats required.
 - a) Percent Solids by Weight 39.8% (minimum)
 - b) Weight 8.34 lbs/gallon
- 5) Laykold (or approved equal) ColorCoat Concentrate textured batch mixture. Pigmented wear-resistant acrylic emulsion. 2-coats required. Advantage Laykold (or approved equal) factory textured color is an acceptable substitute. Laykold (or approved equal) Colorflex textured batch mixture is a recommended alternative to Laykold (or approved equal) ColorCoat due to its highly flexible physical properties.
 - a) Percent Solids by Weight 49 % (minimum)
 - b) Weight: 12.9 (+/- 3) lbs/gallon
- 6) Optional Laykold (or approved equal) ColorCoat Concentrate finish batch mixture. Pigmented wear-resistant acrylic emulsion. 1-coat. Laykold (or approved equal) Colorflex finish batch mixture is a highly recommended substitute. A finish coat will speed up the surface pace of the court.
 - a) Percent Solids by Weight 49 % (minimum)
 - b) Weight: 9.47-9.52 lbs/gallon
- 7) Laykold (or approved equal) Line Prime. Clear drying acrylic emulsion line primer. 1-coat required.
 - a) Percent Solids by Weight 29%
 - b) Weight: 8.9 lbs/gallon
- 8) Laykold (or approved equal) Textured White Line Paint. Factory textured, wear-resistant acrylic emulsion line marking paint. 1-2 coats as required.
 - a) Percent Solids by Weight 67% (minimum)
 - b) Weight: 11.4 lbs/gallon

2.2 BASE MATERIAL

A. Limestone, crushed.

1. Size: 57 stone

B. Asphalt material

1. Shall meet or exceed ALDOT 429 mix guidelines with aggregate size not to exceed 3/8".

PART 3 - EXECUTION

3.1 SITE CLEARING

- A. In accordance with soil test recommendations, remove existing vegetation and required depth of topsoil.

3.2 EARTH WORK (see following attachments)

- A. Slope subgrade 1" in 10' end to end.
- B. Compact subgrade to 95% Standard Proctor test compaction.
- C. Install recommended depth of crushed limestone as base material across the entire court, then fine grade and compact to 95%.
- D. Sterilize the asphalt subsurface using Primatol or equal soil sterilizer.
- E. Install asphalt per ALDOT specs to a minimum as shown on plans.
1. Finished asphalt surface shall not deflect more than 1/8" in 10'.

3.3 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.

3.4 INSTALLATION

- A. Primer (concrete substrates only): When installing the Laykold (or approved equal) Cushion Standard system over concrete, Laykold (or approved equal) Epoxy Concrete Primer must be applied as the first layer of the system. Laykold (or approved equal) 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/yd² (0.12 kg/m² - 360 ft²/gal). The working time for Laykold (or approved equal) 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/m²) 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.
1. Surface Leveling: Birdbaths shall be leveled using a Laykold (or approved equal) Acrylic Deep Patch court patch binder slurry. Prime area with a 50/50 mixture of Laykold (or approved equal) Acrylic Deep Patch and water. Primer shall be brushed into place and allowed to dry prior to patching. Patch mix shall consist of Laykold (or approved equal) Acrylic Deep Patch, 50-mesh sand and Type 1 Portland Cement. Mix as per manufacturer directions.
 2. If cracks are 1/16 inch or less. If greater than 1/16 inch, Laykold (or approved equal) Acrylic Deep Patch court patch binder slurry should be used to fill cracks. Mix as per manufacturer's directions. Refer to

Laykold (or approved equal) Deep Patch technical data sheet for additional mixing details and application instructions for filling various sized cracks.

3. 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 Laykold (or approved equal) 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 (or approved equal) LAYKOLD (OR APPROVED EQUAL) Cushion Standard Revision 4 Page 5 of 6 Issued 08/22/12 Supersedes 11/02/11 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 (or approved equal) Acrylic Resurfacer per coat. NOTE: If the asphalt is very porous, an optional 2nd application of Laykold (or approved equal) Acrylic Resurfacer may be applied. Each coat should be completely dry before applying subsequent coats. Laykold (or approved equal) NuSurf is an acceptable substitute for Laykold (or approved equal) Acrylic Resurfacer and is highly recommended for use on new asphalt pavements, older asphalt pavements, older asphalt pavements with hairline surface cracking, slip-sheet/free floating surfaces, and/or repair methods and over cushioned courts.
- D. Cushion Standard Granule Rubber: Apply 2 to 4 coats of Laykold (or approved equal) Cushion-Standard Granule (based on system desired: 2 coats Cushion Standard, 3 coats Cushion Standard, 4 coats Cushion Standard Supreme) using a 24', 30' or 36' wide 50 Durometer flexible rubber squeegee or manufacturer approved mechanical spray equipment. Batch mix shall consist of 55 gallons (240 kg) of Cushion Standard Granule and 22-27 gallons (83-90 kg) of potable water. DO NOT ADD SAND to any cushion coats! The AVERAGE application rate for the Cushion Standard Granule coats shall equal .20 gal/yd² (.91 kg/m² - 45 ft²/gal) per coat. Allow each coat to dry completely (minimum 5 hours) before proceeding with the next coat of Cushion-Standard or water vapor may become trapped between the cushion layers causing peeling and blisters.
- E. Cushion Standard Powder Rubber: Apply 3 coats of Laykold (or approved equal) Cushion Standard Powder using a 24', 30' or 36' wide 50 Durometer flexible rubber squeegee or manufacturer approved mechanical spray equipment. Batch mix shall consist of 55 gallons (235 kg) of Cushion Standard Powder to 22 gallons (83 kg) of potable water. DO NOT ADD SAND to cushion coats! The average application rate for the Cushion Standard Powder coats shall equal 0.12 gal/yd² (0.61 kg/m² - 75 ft²/gal) per coat. Apply cushion coats using a soft rubber, or notched squeegee. Each coat shall be applied perpendicular (90 degrees) to the previous coat. Please note that the first application of Cushion Standard Powder will use the greatest amount of material as it begins to fill the rough texture created by the larger base rubber coats. The 2nd and 3rd applications of the small filler rubber will use less material with each coat for an overall average consumption rate of 0.12 gal/yd² (0.61 kg/m² - 75 ft²/gal) per coat. Allow each coat to dry completely (minimum 5 hours) before proceeding with the next coat of Cushion-Standard or water vapor may become trapped between the cushion layers causing peeling and blisters.
- F. Textured Color Coats: Apply two coats of Laykold (or approved equal) 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 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/yd² (0.23-0.29 kg/m² - 180-225 ft²/gal) of undiluted ColorCoat Concentrate per coat. Each coat should be completely dry before applying subsequent coats. Due to its superior flexibility Laykold (or approved equal) ColorFlex is a highly recommended substitute for ColorCoat Concentrate on cushioned courts.

Optional Finish Color Coat: Apply one coat of Laykold (or approved equal) 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/yd² (0.17-0.23 kg/m² - 225-300 ft²/gal) of undiluted Laykold (or approved equal) ColorCoat Concentrate per coat. Each coat should be completely dry before applying game lines. Allow topcoat to cure a minimum of 24 hours before applying game lines. Due to its superior flexibility Laykold (or approved equal) ColorFlex is a highly recommended substitute for ColorCoat Concentrate on cushioned courts. A finish coat WILL produce a faster surface pace.

G. Game Lines:

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

2. 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
3. Prime masked lines with Laykold (or approved equal) Line Prime and allow a minimum drying time of 1-hour.
4. Apply 1 to 2 coats as needed of Laykold (or approved equal) Textured White Line Paint with a brush or roller.
5. Remove masking tape immediately after lines are dry.
6. Allow lines to dry a minimum of 24 hours before allowing play on court.

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

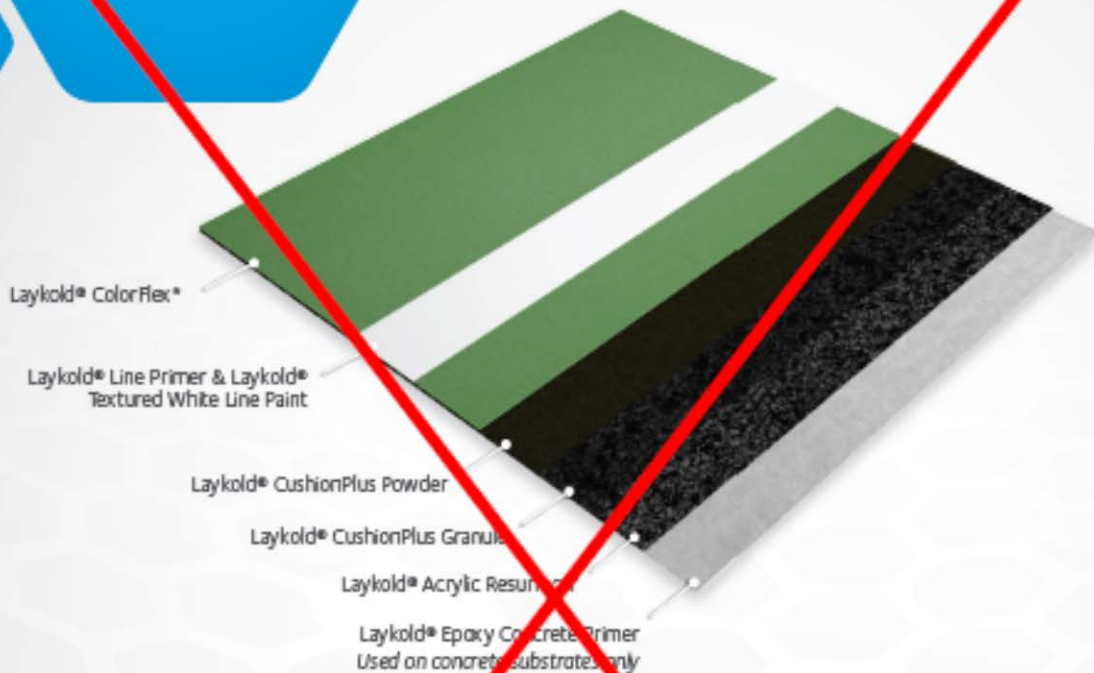
3.5 PROTECTION

- 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.

END OF SECTION 321823.53

Laykold®

Laykold® Cushion Plus systems are the tennis industry's premier cushioned hard court surfaces. The Cushion Plus series is comprised of multiple layers of rubber granules and rubber powder encapsulated within our highly flexible proprietary 100% acrylic binder.



CUSHION PLUS

Highlights

- Certified Quality. Only acrylic surface made by an ISO 9001 and 14001 certified company in the United States
- More comfortable play and post play experience
- Firm, yet resilient, uniform footing for unsurpassed safety
- Available in 3 comfort levels: CP, CP Extreme and CP Supreme
- Environmentally friendly – does not contain asbestos, lead or mercury
- Can be adjusted to meet desired court pace

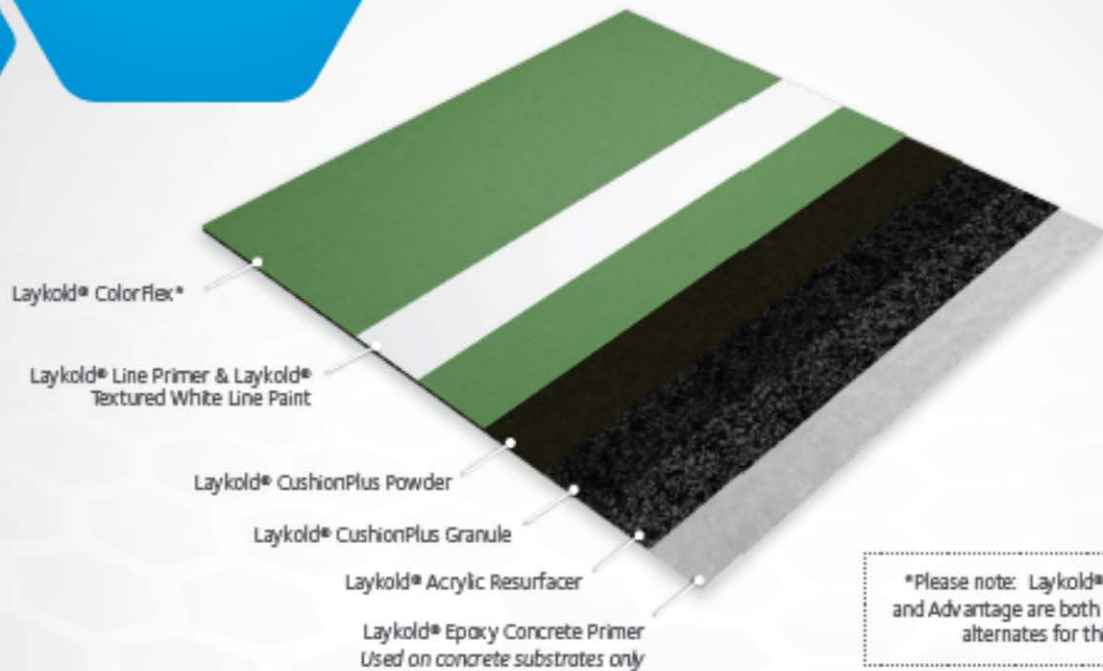
*Please note: Laykold® ColorCoat and Advantage are both acceptable alternates for this top coat.

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*Please note: Laykold® ColorCoat and Advantage are both acceptable alternates for this top coat.

STANDARD

- 2 coats Laykold® Cushion Plus Granule
- 3 coats Laykold® Cushion Plus Powder
- 2 coats Laykold® ColorFlex. ColorCoat and Advantage Laykold® are acceptable alternates.
- **Optional:** 1 finish coat of color may be applied to speed up surface pace.

XTREME

- 3 coats Laykold® Cushion Plus Granule
- 3 coats Laykold® Cushion Plus Powder
- 2 coats Laykold® ColorFlex. ColorCoat and Advantage Laykold® are acceptable alternates.
- **Optional:** 1 finish coat of color may be applied to speed up surface pace.

SUPREME

- 4 coats Laykold® Cushion Plus Granule
- 3 coats Laykold® Cushion Plus Powder
- 2 coats Laykold® ColorFlex. ColorCoat and Advantage Laykold® are acceptable alternates.
- **Optional:** 1 finish coat of color may be applied to speed up surface pace.



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