Addendum # 1, August 2, 2016
Oak Brook Park District
Central Park Tennis Courts Resurfacing Project Bid

All addenda issued to bidders shall be incorporated into the Bid and Contract Documents. Bidder must acknowledge all Addenda received in the spaces provided on the Contractor Bid Form. (Pages 19-20) By submitting a bid, Bidder indicates that all considerations issued by Addendum are incorporated in the bid. **Bidders shall include a printed and signed copy of the addendum with their bid submittal.**

1.) The following products have been approved as an equal to the products specified in the Bid Packet.

TPS 5000 Acrylic Surfacer
TPS 5000 Rhino Fill
TPS 5000 Color Concentrate
TPS 5000 Line Paint

Fortified Plexipave Resurfacer
Fortified Plexipave Color Finish System

2. A new Bidder's Reference List is attached to this addendum. Bidders shall use the attached revised Bidder's Reference List. The references provided by the Bidder on the "Bidder's Reference Sheet" shall be for at least three (3) projects performed for governmental entities of similar scope and complexity as the Central Park Tennis Courts Resurfacing Project in the past five (5) years and shall be for projects located in the greater Chicago, Illinois vicinity and/or surrounding collar counties.

Bidder's acknowledgement of the receipt of Addendum # 1, August 2, 2016

Contractor's Signature: _____

Contractor's Name: _____

Company Name: _____

Date: _____

BIDDER'S REFERENCE LIST

Each Bidder must list the name, address, phone number and project name for at least three (3) projects performed for governmental entities of similar scope and complexity as the Central Park Tennis Courts Resurfacing Project in the past five (5) years and be located in the greater Chicago, Illinois vicinity and/or the surrounding collar counties. Bidder may include, as a separate attachment, additional information or references on projects completed.

1.

_____

Name of Park District, School District, or Municipality

_____

Contact Person

_____

Phone Number E-Mail

_____

Description of Work performed Project Value

2.

_____

Name of Park District, School District, or Municipality

_____

Contact Person

_____

Phone Number E-Mail

_____

Description of Work performed Project Value

3.

_____

Name of Park District, School District, Municipality

_____

Contact Person

_____

Phone Number E-Mail

_____

Description of Work performed

Revised 8-1-16 (Addendum 1)

TPS 5000® ACRYLIC SURFACER

DESCRIPTION

TPS 5000® Acrylic Surfacer is a heavy bodied acrylic latex binder fortified with mineral fillers and fibers. TPS 5000 Acrylic Surfacer is designed for field mixing with sand to provide superior filling and leveling characteristics. It is supplied in concentrated form and is diluted with water and sand prior to the application. The amount of sand may be adjusted for varying applications.

TPS 5000® Acrylic Surfacer can be used as a leveling material as well as a filler course. Its quick drying capability allows for multiple applications in one day.

USES

TPS 5000® Acrylic Surfacer is recommended for use as a leveling and filler cot for asphalt and concrete pavement surfaces on new or existing tennis courts, playgrounds, and multi-purpose areas.

SURFACING PREPARATION

New asphalt pavements should cure a minimum of 14 days prior to any coating application. New concrete surfaces should cure 28 days prior to any coating application. **When installing over concrete surfaces, the concrete should be installed without concrete curing compound.** New and old surfaces should be thoroughly cleaned to be free from oil, grease, dirt and other foreign matter.

MIX DESIGN

The following mix is recommended for regular pavement conditions. More sand can be added if better filling is required.

TPS 5000® Acrylic Surfacer	53 gallons
Dry Silica Sand (30 to 80 mesh)	636-742 lbs.
Water	32-37 gallons

When ordering TPS 5000® Acrylic Surfacer, figure 7-14 square yards per gallon of concentrated material for each coat of textured acrylic surfacer, depending on porosity of substrate and filling required.

APPLICATION

TPS 5000® Acrylic Surfacer is applied with a rubber squeegee. Care should be taken not to leave ridges. When the first application has dried, the second application shall be made at 90 degrees to the first application.

CLEAN-UP

Rinse tools with water soon after using.

SHELF LIFE

Approximately 12 months.

PHYSICAL PROPERTIES

Weight/Gallon	8.9 per gallon
Drying Time	Touch: 1 hour
	Firm: 3 hours
Application Temperature:	50 degrees F & rising.

PRECAUTIONS & LIMITATIONS

Keep from freezing. Harmful if swallowed. Read material safety data sheets. This product will not prevent pavement cracks from occurring or re-occurring. Do not apply if surface temperature is less than 50F or more than 140F. Do not apply over tar emulsion sealers. Apply only when ambient temperature is 50F and rising. Do not apply when rain is imminent.

SHIPPING WEIGHT

53 gallon drum	512 lbs
5 gallon pail	48 lbs.

Limited Warranty: This product is guaranteed to be of the kind and quality described in its specifications. All other warranties are specifically excluded and the manufacturer shall not be liable for any consequential damages. Under no circumstances shall the manufacturer's liability exceed the purchase price of any materials deemed to be defective under this warranty. Warranty will be voided on multi-coated applications if material made by other manufacturers, that has not been approved by the manufacturer of TPS 5000® products, is used with this product.

TPS 5000® COLOR CONCENTRATE

DESCRIPTION

TPS 5000® Color is heavy bodied, multi-purpose acrylic latex coating fortified with mineral fillers, fibers and high quality pigments for a long-lasting, attractive recreational surface. TPS 5000® Color can be used for a "non-textured" as well as a textured coat containing sand. It is supplied in concentrated form and is diluted with water prior to application. TPS 5000® Color comes in nine vibrant colors: meadow green, forest green, brick red, terra cotta, tan, adobe, turquoise, cobalt blue and grey.

USES

TPS 5000® Color is used as a colored surface on asphalt and concrete pavements for new and existing tennis courts, playgrounds and multi-purpose areas. On-the-job mixing allows improved filling characteristics, simply by adding sand to the mixture.

SURFACE PREPARATION

New asphalt pavements should cure a minimum of 14 days, and concrete should cure a minimum of 28 days prior to any coating application. When installing over concrete surfaces, the concrete should be installed without curing compound. New and old surfaces should be thoroughly cleaned to be free from oil, grease, dirt and other foreign matter.

MIX DESIGN TEXTURED COAT

The following mix is recommended for regular pavement conditions. More sand can be added if better filling is required.

TPS 5000® Color	50 gallons
Dry Silica Sand (30 to 90 mesh)	300-400 lbs.
Water	25-30 gallons

When ordering TPS 5000® Color, figure 14-20 square yards per gallon of concentrated material for each coat depending on sand mesh size and condition of substrate.

MIX DESIGN – NON-TEXTURED

TPS 5000® Color should be mixed 2 parts concentrated material to 1 part water. When ordering TPS 5000® Color, figure 24-26 square yards per gallon of concentrated material for each non-textured coat.

APPLICATION

TPS 5000® Color is applied with a rubber bladed squeegee. Care should be taken not to leave ridges.

CLEAN-UP

Rinse tools with water soon after using.

SHELF LIFE

Approximately 12 months.

PHYSICAL PROPERTIES

Weight/Gallon	9.7 lbs. per gallon
Drying Time	30 to 60 minutes
Ready to Play	24 hours

PRECAUTIONS & LIMITATIONS

Keep from freezing. Harmful if swallowed. Read material safety data sheets.

This product will not prevent pavement cracks from occurring or re-occurring. Do not apply if surface temperature is less than 50F or more than 140F. Do not apply over tar emulsion sealers. Apply only when ambient temperature is 50F and rising. Do not apply when rain is imminent.

SHIPPING WEIGHT

50 gallon drum	520 lbs.
5 gallon pail	54 lbs.

Limited Warranty: This product is guaranteed to be of the kind and quality described in its specifications. All other warranties are specifically excluded and the manufacturer shall not be liable for any consequential damages. Under no circumstances shall the manufacturer's liability exceed the purchase price of any materials deemed to be defective under this warranty. Warranty will be voided on multi-coated applications if material made by other manufacturers, that has not been approved by the manufacturer of TPS 5000® products, is used with this product.

TPS 5000® LINE PAINT

DESCRIPTION

TPS 5000® Line Paint is an acrylic paint specifically designed for use on acrylic coated surfaces, asphalt or concrete pavements.

USES

TPS 5000® Line Paint is used for line markings on tennis courts, playgrounds and recreational areas. TPS 5000® Line Paint can be used for exterior or interior markings.

SURFACING PREPARATION

Surfacing should be thoroughly cleaned and free from oil, grease, dirt and other foreign matter. New asphalt should cure for a minimum of 14 days and concrete should cure for a minimum of 28 days, if paint is applied over uncoated surface.

MIX DESIGN

Use TPS 5000® Line Paint as is – do not dilute. When ordering TPS 5000® Line Paint, figure 1 gallon per tennis court or 500 lineal feet per gallon.

APPLICATION

TPS 5000® Line Paint can be applied to properly cleaned, dry asphalt pavements or color-coated areas by brush or roller.

CLEAN-UP

Rinse tools with water soon after using.

SHELF LIFE

Approximately 12 months.

PHYSICAL PROPERTIES

Weight/Gallon	11 lbs. per gallon
Drying Time	Touch: 30-60 minutes
Ready to Play:	24 Hours
Application Temperature:	50 degrees F & rising.

PRECAUTIONS & LIMITATIONS

Keep from freezing. Harmful if swallowed. Read material safety data sheets. This product will not prevent pavement cracks from occurring or re-occurring. Do not apply if surface temperature is less than 50F or more than 140F. Do not apply over tar emulsion sealers. Apply only when ambient temperature is 50F and rising. Do not apply when rain is imminent.

SHIPPING WEIGHT

1 gallon pail	12 lbs.

Limited Warranty: This product is guaranteed to be of the kind and quality described in its specifications. All other warranties are specifically excluded and the manufacturer shall not be liable for any consequential damages. Under no circumstances shall the manufacturer's liability exceed the purchase price of any materials deemed to be defective under this warranty. Warranty will be voided on multi-coated applications if material made by other manufacturers, that has not been approved by the manufacturer of TPS 5000 products, is used with this product.

TPS 5000® RHINOFILL

DESCRIPTION

TPS 5000® Rhinofill is a two component unit consisting of a synthetic rubber latex liquid which blends and stabilizes together with a dry component containing a dehydrating powder and curing chemicals. The combination is mixed and applied on the job resulting in a smooth monolithic underlayment to receive finishing materials.

SURFACING PREPARATION

New asphalt pavements should cure a minimum of 14 days, and concrete should cure a minimum of 28 days prior to any coating application. When installing over concrete surfaces, the concrete should be installed without curing compound. New and old surfaces should be thoroughly cleaned to be free from oil, grease, dirt and other foreign matter.

MIX DESIGN

Typical mix design is 1 quart liquid component to 10 lbs. of dry component. This ratio may be varied to obtain desired consistency.

APPLICATION

Apply with a putty knife, trowel, squeegee or straight edge. Be sure to "feather the edges" to make a level surface. TPS 5000® Rhinofill can be applied from 1" to feather edge. Cured material can be ground or sanded smooth.

CLEAN-UP

Rinse tools with water soon after using.

SHELF LIFE

Approximately 12 months.

PHYSICAL PROPERTIES

Drying Time: Dependent upon depth of the patch and weather condition.

PRECAUTIONS & LIMITATIONS

Keep from freezing. Harmful if swallowed. Read material safety data sheets. This product will not prevent pavement cracks from occurring or re-occurring. Do not apply if surface temperature is less than 50F or more than 140F. Do not apply over tar emulsion sealers. Apply only when ambient temperature is 50F and rising. Do not apply when rain is imminent.

SHIPPING WEIGHT

5 gallon pail	48 lbs.

Limited Warranty: This product is guaranteed to be of the kind and quality described in its specifications. All other warranties are specifically excluded and the manufacturer shall not be liable for any consequential damages. Under no circumstances shall the manufacturer's liability exceed the purchase price of any materials deemed to be defective under this warranty. Warranty will be voided on multi-coated applications if material made by other manufacturers, that has not been approved by the manufacturer of TPS 5000 products, is used with this product.

Plexipave®
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FORTIFIED PLEXIPAVE®

DESCRIPTION:

Fortified Plexipave is a beautiful and colorful surface finish system in a form containing additional colors and binders for longwearing playing surfaces such as tennis courts and playgrounds. With its filler properties, Fortified Plexipave provides a uniform asbestos- free texture over suitable asphalt emulsions, hot-mix asphalt surfaces and concrete. Since Fortified Plexipave requires essentially no mixing, the applicator does not need expensive mixing equipment and the additional labor required with on-the-job mixing. Fortified Plexipave may be used in a three coat system or a final texture finish coat for the Plexipave Color Finish System.

SURFACE USES:

Over asphalt and suitable concrete substances:

- Tennis Courts
- Basketball Courts
- Play Areas
- Light Traffic Pathways and Walkways
- Patios
- Multi-Purpose Sport Areas

APPLICATION:

- 24" or 36" 50 Durometer flexible rubber squeegees as approved by the Manufacturer.

DRYING TIME:

- 30 minutes to one hour depending on ambient temperature and humidity. A three coat application in normal summer drying weather can be made over a properly prepared surface in one day.

COLOR RANGE:

- 9 selected colors: Light Green, Dark Green, Florida Green, Red, Sahara Sand, Pacific Blue, Cape Gray, Brown, Maroon.

COVERAGE:

(Depending on Surface and Porosity.)

- First Coat – 10-15 square yards per gallon. (.1-.07 gal. /sq. yd.)
- Second Coat – 15-20 square yards per gallon. (.07-.05 gal. /sq. yd.)
- Third Coat – 20-25 square yards per gallon. (.05-.04 gal. /sq. yd.)

LIMITATIONS:

- Apply only when ambient temperature is 50°F and rising.
- Keep containers tightly closed when not in use.
- Do not apply when rain or high humidity is imminent.
- Do not apply if surface temperature is in excess of 140°F
- Obtain maximum leveling, proper pitch and "tight" surface density of asphalt leveling course to provide maximum performance and economy of Fortified Plexipave.
- Allow asphalt to cure at least 14 days
- Allow concrete to cure a minimum of 28 days. Do not allow use of curing agents or concrete hardeners.
- Keep from freezing – Do not store in hot sun
- The Plexipave system will not prevent pavement cracks from occurring

SPECIFICATIONS
FORTIFIED PLEXIPAVE COLOR FINISH SYSTEM

1.0 SCOPE

1.1 These specifications pertain to the application of Fortified Plexipave Color Finish over tennis courts and other recreational areas as designated in the Site Plans. The material in colors indicated shall be for asphalt or concrete surfaces and must be equally durable over both.

1.2 The work shall consist of suitable cleaning and preparation of the asphalt or concrete to assure a satisfactory bond of the color finish to the base and the subsequent coating applications.

2.0 DESCRIPTION

2.1 The asphalt (or concrete) surfaces to receive the color finish shall be provided clean, sound, free of grease, oils and other foreign materials, and shall be to the grade and pitch shown in the plans. Concrete surfaces shall be etched with Concrete Preparer, allowed to dry well and scrubbed clean. Concrete surfaces shall be primed with California Ti-Coat according to specification 10.17. Acrylic Resurfacer shall be applied over asphalt and concrete surfaces according to specification 10.8

The application contractor of the color Finish shall then remove by brush, vacuum or blower (as appropriate in each area for safety and convenience) all dust, dirt, imbedded soil. Tree stains, resins and areas not easily cleaned shall be mechanically washed and removed.

2.2 Edges adjacent to building, curbing and landscaping not to be coated with this Color Finish System shall be adequately masked with tape or otherwise protected during these applications. The contractor shall also erect suitable temporary barriers to protect the coatings during drying and curing periods.

2.3 Materials specified for the Color System shall be delivered to the site in sealed, green painted containers properly labeled with California Products Corporation labels, and stenciled with the proper batch code numbers. Products packaged or labeled in any other manner will not bee accepted. Mixing with clean fresh water shall only be done at the job site. Spreading rates are based upon materials prior to mixing with water as directed. The material shall be mixed one (1) part water to four (4) parts Fortified Plexipave. In extremely warm climatic conditions, additional water can be added for a more workable mix.

3.0 SURFACE PREPARATION

3.1 Asphalt shall be cured for at least 14 days and concrete for a minimum 28 days prior to Color Finish application. Ridges and excessive voids or depressions shall be corrected prior to first color application. Refer to CPC Specified Section 10.0, 10.8 and 10.14 for preparation of asphalt and concrete surface.

4.0 FORTIFIED PLEXIPAVE COLOR FINISH SYSTEM

4.1 The materials to be used shall be FORTIFIED Plexipave as manufactured by California Products Corporation, Andover, MA 01810, in colors specified and approved by the owner prior to first color application.

5.0 APPLICATION

5.1 Over new asphalt (or concrete) surfaces, three (3) squeegee coats of the same color shall be applied in succession as soon as the previous coat has dried and all work shall be done by experienced or carefully trained workmen. The contractor shall be accountable at all times for the amount of materials of each color used.

5.2 All line markings shall be made with Textured Plexicolor Line Paint according to specification 10.4

6.0 GENERAL

6.1 Upon completion of work, the contractor shall remove all containers and debris, and leave the site in a clean and orderly condition acceptable to the owner.

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ACRYLIC RESURFACER

DESCRIPTION

Acrylic Resurfacer is an asbestos free, acrylic latex binder developed expressly for job mixing with silica sand to obtain a fast drying filler coat that reduces surface posterity in asphalt and concrete pavements. As opposed to other filler coat products, multiple applications of Acrylic Resurfacer does not require rolling between coats.

SURFACE USES

Acrylic Resurfacer may be applied over properly prepared asphalt and concrete sub-bases that are to be surfaced with the Plexipave® or Plexicushion® Surfacing Systems.

APPLICATION

Use a 70 Durometer flexible rubber squeegee; 24", 30", 36" width.

DRYING TIME

Thirty minutes to one hour under optimum outdoor temperature and humidity conditions (70°F, 50% humidity). For indoor application, provide heat and air circulation to expedite drying.

MIXING

A variety of sand gradations can be used depending on the surface condition to be treaded. Quantities of sand and water will vary depending on the sand gradation. When using finer gradation less sand should be used to maintain strength in the mix. For leveling or patching, Court Patch Binder mixes should be used (see specification Section 10.14).

Resurfacer Mix (for squeegee application)

Acrylic Resurfacer	55 gallons
Water (clear and potable)	20-40 gallons
Sand (60-80 mesh)	600-900 pounds
Liquid Yield	112-138 gallons

COVERAGE

Filler Coat: 15-20 square yards per gallons depending on surface texture and porosity (.05-.07 gals/sq. yd.)

LIMITATIONS

- Apply only when ambient temperature is 50°F and rising.
- Do not apply when rain is imminent.
- Do not apply when surface temperature is less than 50°F or more than 140°F.
- Do not apply over tar emulsion sealers.
- Keep containers tightly closed when not in use.
- Keep materials from freezing.
- New asphalt shall be allowed to cure for at least 14 days; concrete shall cure for 28 days. Do not use curing compounds
- Use only with sands free of clay, silt and other foreign materials.
- The Plexipave System will not prevent pavement cracks from occurring.

SPECIFICATIONS
ACRYLIC RESURFACER

1.0 SCOPE

1.1 This specification pertains to the application of Acrylic Resurfacer over asphalt and concrete tennis courts and other recreational areas as designated in the Site Plans. The material is to be used as a filler coating to reduce surface porosity and obtain a uniform texture prior to applying the Plexipave Color Surface System. Application shall be equally durable over indoor or outdoor asphalt, indoor concrete and outdoor concrete with a proper vapor barrier in place.

1.2 The work shall consists of suitably cleaning and preparing the asphalt or concrete to assure a satisfactory bond of the Acrylic Resurfacer Filler Mix, and the subsequent application of the quantity of material specified herein.

1.3 Materials shall be delivered to the site in sealed, properly labeled containers and water used in mixing shall be fresh and clear. Coverage rates are based on manufacturer's materials prior to adding sand and mixing with water.

2.0 SURFACE PREPARATION

2.1 The surface to receive the Acrylic Resurfacer Mix shall be of uniform texture, clean, and free of grease, oils and other foreign materials.

2.2 **Asphalt**- Allow asphalt to cure a minimum of 14 days. Prior to the application of surfacing materials, the entire surface shall be flooded and checked for minor depressions or irregularities. Any puddled area covering a nickel shall be marked and repaired with Court Patch Binder using the following mix:

100 lbs. 60-80 mesh silica sand (dry)
3 gallons Plexipave Court Patch Binder
1 to 2 gallons Portland Cement (dry) (depending on humidity and temperature)

A tack coat consisting of 1 part Court Patch binder and 2 parts water shall be applied to the patch areas and allowed to dry thoroughly prior to repairing. For more information see California Products Specification 10.14 or 10.21.

After patching, the surface shall not vary more than 1/8" in ten feet measured in any direction.

2.3 **Concrete**- Concrete shall have a wood float or broom finish. DO NOT PROVIDE STEEL TROWEL FINISH. DO NOT USE CURING AGENTS OF CONCRETE HARDNERS. Allow the concrete to cure a minimum of 30 days. Acid Etch the entire surface with Concrete Preparer at a rate of .01-.013 gallons per square yard. Check surface for birdbaths, cracks and other irregularities and repair with Court Patch Binder as specified above asphalt section.

3.0 APPLICATION OF SURFACE FILLER COAT

3.1 Application of the Acrylic Resurfacer Mix shall be applied to a clean, dry, level surface using the following mix:

Acrylic Resurfacer	55 gallons
Water (clean and potable)	20-40 gallons
Sand (60-80 mesh)	600-900 pounds
Liquid Yield	112-138 gallons

Use clean, dry sand and clear potable water to make mixes. Mix the ingredients thoroughly in a mortar box or mortar mixer. Apply the Acrylic Resurfacer mix with a 70 Durometer rubber bladed squeegee in windrow on the surface with sufficient quantity to cover as the squeegee is pulled over the surface.

3.2 **Asphalt**- Apply the Acrylic Resurfacer Mix in one or two coats (depending on surface porosity) at a rate of .05-.07 gallons per square yard per coat.

3.3 **Concrete**- Prime surface with California Ti-Coat at a rate of .025-.03 gallons per square yard. The Acrylic Resurfacer Mix must be applied within 3 hours of the Ti-Coat application while the primer is still dry but tacky to the touch. Apply the Acrylic Resurfacer Mix in one or two applications at a rate of .05-.07 gallons per square yard per coat.

3.4 Allow the application of Acrylic Resurfacer to dry thoroughly. Scrape off all ridges, and rough spots prior to any subsequent application of Acrylic Resurfacer or Plexipave.

3.5 When applying Acrylic Resurfacer indoors, provide adequate heat and ventilation to obtain rapid drying.