

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. Contract Number	Page of Pages 1 20	
2. Amendment/Modification Number DCHA-2011-B-0148-002		3. Effective Date 2-Jun-11		4. Requisition/Purchase Request No.	
5. Solicitation Caption Resurfacing of Tennis and Basketball Courts at Langdon Recreation Center					
6. Issued By: Department of Real Estate Services Contract and Procurement Division 2000 14th Street N.W., Suite 500 Washington, D.C. 20009		Code 03B		7. Administered By (If other than line 6) Department of Real Estate Services Contract and Procurement Division 2000 14th Street N.W., Suite 500 Washington, D.C. 20009	
8. Name and Address of Contractor (No. Street, city, country, state and ZIP Code)			(X)	9A. Amendment of Solicitation No. DCHA-2011-B-0148	
				9B. Dated (See Item 11) 24-May-11	
				10A. Modification of Contract/Order No.	
				10B. Dated (See Item 13)	
Code	Facility				
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS					
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended. <input checked="" type="checkbox"/> is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning <u>1</u> copy of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or fax which includes a reference to the solicitation and amendment number. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or fax, provided each letter or telegram makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.					
12. Accounting and Appropriation Data (If Required)					
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14					
(X)	A. This change order is issued pursuant to: (Specify Authority) The changes set forth in Item 14 are made in the contract/order no. in item 10A.				
	B. The above numbered contract/order is modified to reflect the administrative changes (such as changes in paying office, appropriation data, etc.) set forth in item 14, pursuant to the authority of 27 DCMR, Chapter 36, Section 3601.2.				
	C. This supplemental agreement is entered into pursuant to authority of:				
	D. Other (Specify type of modification and authority)				
E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input checked="" type="checkbox"/> is required to sign this document and return <u>1</u> copy to the issuing office.					
14. Description of amendment/modification (Organized by UCF Section headings, including solicitation/contract subject matter where feasible.)					
1. Attachment A - Sign in sheet from Site Visit 2. Attachment B - Items Covered at Pre-Bid Conference 3. Attachment C - List of Products "approved as equals" 4. In Section C.2.7 remove the words "and gates" to now read "Installing 10' high new vinyl-clad chain link fencing, per the attached fencing specifications, to enclose the basket ball courts; no fencing is required by the tennis courts. Contractor shall measure the actual linear footage before submitting the bid." 5. The deadline for questions is hereby changed from June 3, 2011 to June 6, 2011 by 3:00 PM 6. All other terms and conditions remain the same					
Except as provided herein, all terms and conditions of the document referenced in Item (9A or 10A) remain unchanged and in full force and effect					
15A. Name and Title of Signer (Type or print)			16A. Name of Contracting Officer Diane Wooden		
15B. Name of Contractor		15C. Date Signed		16B. District of Columbia <i>Diane Wooden</i>	
(Signature of person authorized to sign)				16C. Date Signed <i>6/1/11</i> (Signature of Contracting Officer)	

DCHA-2011-B-0148
PRE BID CONFERENCE
FOR THE RESURFACING OF TENNIS AND BASKETBALL COURTS
AT LANGDON RECREATION CENTER
ITEMS COVERED

Contract Specialist: Silvia Silverman;

Contract Administrator: Mr. Sultan Ali, of the Department of Parks and Recreation

- This pre bid meeting will be followed by the site visit. It is important that each contractor familiarize him or herself with the requirements of the site. Change Orders are not issued for items listed in the solicitation, as part of the scope, or as attachments. It is to the bidders benefit to make sure quantities and dimensions are confirmed prior to submitting the bids so that they are as accurate as possible.
- If Contractors need to go back to the site for measurements, they should feel free to do so as this is an open park.
- This solicitation is for the set aside market; please read the information in the solicitation pertaining to the set aside rules. A bidder responding to this solicitation must submit with its bid, a notarized statement detailing any subcontracting plan required by law. Proposals responding to this IFB shall be deemed nonresponsive and shall be rejected if the bidder fails to submit a subcontracting plan that is required by law. Make sure that you are familiar with the subcontracting rules.
- The completion time for this solicitation is 45 calendar days from the date indicated in the Notice to Proceed; please note that liquidated damages, in the amount of \$1,080.00 per day, will be imposed unless an extension for completion is requested by the Contractor in writing from the Contracting Officer, Ms. Diane Wooden in advance of the deadline. Please review Section H.1 of the IFB and Article 5 of the Standard Contract Provisions.
- Go through the solicitation carefully. Should you have any questions, please send them to me in writing. I prefer e-mail (silvia.silverman@dc.gov) but you may also fax your questions. 202-442-9506. The solicitation stated that the deadline for questions is June 3rd; I will be extending that date until Monday, June 6th. The answers will be posted on the OCP website www.ocp.dc.gov as an amendment to the solicitation.
- Section B.6 provides a price breakdown form; make sure that you add all your administrative costs, installation, maintenance and warranty and other costs such as insurance and bonding.

- Bids are due June 14, 2011 at 2:00 PM. Please have the bids to the bid room, located in the Reeves Center, 2000 14th Street, NW, Washington, on the 3rd floor, in time. If the bids are even a minute late they will not be opened.
- Make sure that all forms required are completely filled out. There are many forms included in the solicitation as an attachment or by reference, you must go to the Office of Contracting and Procurement website www.ocp.dc.gov and follow the link to Solicitation Attachments; there you will find the forms to be completed and submitted with your proposals. Make sure that all forms required are completely filled out. You may have old forms that you used previously – do not send those, go to the OCP website and download the latest forms.
- Bids that do not include a bid bond, or a subcontracting plan, if necessary, will be considered non responsive.
- Notifications of Amendments will not be sent to individual bidders but will be posted on the OCP website. Please check the website daily up until the day of the bid opening. You must acknowledge any modifications posted by signing them and including them in your bid package. If you have any questions regarding an amendment or if you need clarification of any requirement within this solicitation, please ask; as long as the question is received by 3:00 pm on June 6th, we will answer the question.

DCHA-2011-B-0148
ATTACHMENT C
ALTERNATIVE PRODUCTS APPROVED FOR USE
FOR THE RESURFACING OF TENNIS AND BASKETBALL COURTS
AT LANGDON RECREATION CENTER

Products submitted for approval and approved for use as an alternative product to that specified:

- *Laykold Deep Patch for crack filling and patching
- *Laykold NuSurf for first coat of acrylic filler
- *Laykold Colorflex for textured color coats
- *Laykold line paint for textured line striping

The manufacturer, Advanced Polymer Technology, is a member of the American Sports Builders Association (ASBA). APT's contact information is:

Advanced Polymer Technology
109 Conica Lane
Harmony PA 16037

Contact: Jeff Bryant @ 732-206-0031 or jhbdurham@comcast.net

- * Please contact person listed above for catalogs and specifications

NovaPro Xtreme Court – See attached information



SECTION 02542

RESURFACING OVER ASPHALT OR CONCRETE

PART 1 - GENERAL

1.01 SUMMARY

A. This section includes and is not limited to:

1. Installation of the Nova'ProXtreme monolithic pavement "CushionCourt" tennis court consisting of a polyester base layer, topped with a 5mm resilient urethane foam which is sealed with a multi-ply polyester cover layer impregnated with a natural urethane sealant of synthetic polymers and flexible acrylic finishing materials.
2. Preparation of existing asphalt or concrete base to receive new surfacing.
3. Tennis net posts, foundations and anchor straps.

1.02 QUALITY ASSURANCE

- A. Nova'ProXtreme tennis surface shall be constructed by an approved installer certified by NGI Sports (NGI). The Nova'ProXtreme system shall meet manufacturing specifications set up for same.
- B. All material shall be clearly marked.
- C. Material shall not be installed when rain is imminent or the temperature is below 50°F.
1. The installation of the Nova'ProXtreme system shall be completed in dry weather.
 2. Neither surface nor base may be moist or wet.
 3. Fabrication should be done in dry weather with the temperature above 50° F and rising.

1.03 WARRANTY

A. Materials shall have a minimum limited warranty supplied by the manufacturer.

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B. Contractor to provide {Owner} {Architect} {Landscape Architect} {Engineer}, upon completion of warranty application, written warranty at completion of project in accordance with Section {01700} {01740} of the Project Manual.

PART 2 - PRODUCTS

2.01 SURFACING SYSTEM FOR TENNIS

A. The Nova’ProXtreme base sheet, Nova’PX-Stratum shall consist of artificial fibers that shall meet the following minimum specifications.

Compression set	< 15%
Compression resistance	5lb/sq inch minimum
Flammability	Class 2 radiant panel
Moisture Absorbtion	< 10% weight
Construction	Hot Belt Lamination
Thickness	5mm
Standard Color	Green
Line Color	White
Base Sheet Interliner	Dual Polyester Sandwich
Base sheet F@ 5% elongation weft	615
Base sheet 5% elongation warp	410
Base sheet resistance to sheer weft	49.10
Base sheet resistance to sheer warp	47.10
System Weight	7.2 lbs/sq yd

B. Seams: Nova’PX-Bond, weather resistant scrim tape and one component urethane adhesive as recommended by system manufacturer.

C. Interface: Nova’PX-ACR Binder (interface coating) shall be of the quality approved by system designer, NGI, blended with 1.5 lbs of .05 to 1.2 mm recycled rubber granules and 3 lbs of 40 mesh sand.

D. Finish: Nova’PX-Finish (color surfacing materials) shall be of the quality approved by system designer, NGI.

2.02 TENNIS COURT ACCESSORY MATERIALS

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- A. Net Posts and Sleeves Equipment: Tennis posts shall be made out of steel, metal or wood of sufficient strength to properly support the net at a height of 42". Posts and sleeves shall be set where indicated on drawings. Posts shall be set plumb and true so as to support the net at a height of 42" above the court surface at the net posts.
- A. Center Strap Anchor: A center strap anchor shall be positioned as shown on the drawings and set in concrete footings measuring 12" X 12" X 12".
- B. Tennis Nets: Shall be polyethylene 3 mm braided body, 42' long and 3.25' wide, polyester top binding attached with four lock stitched rows. Sides shall be braced with dowels for a neat, taut appearance. Nets shall be installed, upon completion, to posts and cables.

PART 3 - EXECUTION

BASE PREPARATION

3.01 EXISTING ASPHALT OR CONCRETE SURFACE PREPARATION

- A. The Nova'ProXtreme tennis surfacing system shall be installed on a sound base surface with surface tolerance not exceeding 1/8" in 10' when measured in any direction with a minimum slope in one direction of 1" in 10'.
 - 1. Once the surface has been thoroughly cleaned and is free of all loose material, dirt, dust, and foreign debris, the court should be flooded with water and allowed to drain. Any area holding water a depth greater than 1/16" (thickness of a nickel) shall be outlined and patched.
 - 2. Surface Leveling: Birdbaths shall be leveled using the following
 - a. Area to be patched shall be primed using five parts water to one part Nova'PX-PolyTex patching compound.
 - b. Primer to be brushed into place and allowed to dry prior to placement of the patch.
 - c. Surface Patch: Mix thoroughly five gallons of Nova'PX-PolyTex compound binder, five gallons of silica sand and one pint Type I Portland Cement. Applied in layers up to 2" deep.
 - 3. Cracks shall be cleaned, primed and filled with dry silica sand up to 1/2" of top surface

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profile and then filled to 1/8" to top of crack with a flexible joint compound. A rigid thin film tape, Nova'PX-Bond II shall be laid into wet caulk on cracks 3/4" and larger to prevent shadowing after surfacing.

3.02 INSTALLATION OF TENNIS COURT ACCESSORIES

- A.** Post foundations shall be not less than 24" in diameter at the top, not less than 30" in diameter at the bottom, and not less than 36" in depth.
- B.** Foundations shall be situated so as to provide a clear distance between posts of 33' on single courts and 42' on double courts.
- C.** The metal anchor strap, located at the center of the net, shall be set in a concrete footing measuring 12" in diameter and 12" deep.
- D.** Square footings and foundations are not acceptable.
- E.** Tennis nets shall be installed, upon completion, to posts and cables for a neat, taut appearance.

3.03 Nova'ProXtreme Surfacing System

- A.** Confirm that all center strap anchors and net post sleeves are in place prior to surface installation.
- B.** The surface course shall be installed according to manufacturer=s specifications.
- C.** All surface course materials are to be installed after the surface has been inspected and approved by the {Owner} {Architect} {Landscape Architect} {Engineer}.
- D.** Specially engineered base sheet layer, Nova'PX-Stratum shall be placed over subbase in accordance with manufacturer's instructions.
- E.** Apply multiple applications of ACR Binder to seams to smooth texture and feather seams so they are not visible after installation.
- F.** All joints shall be attached with Nova'PX-Bond, a special combination of a one-component, moisture cured urethane adhesive and a weather resistant scrim laminated polyester tape as recommended by system manufacturer. Heat seaming methods are not allowed.

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- G. Inspect entire surface for imperfections; grind and scrape surface to remove any imperfections which may exist.
- H. Fill & Texture: Apply one coat by rubber squeegee of Nova'PX-ACR Binder mixed with recycled rubber and sand to achieve an even texture throughout the surface area.
- I. Edging: Apply edge trim, Nova'PX Edge Tape to perimeter of court to seal all surface edges.

Finish: Apply Nova'PX-Finish, approved flexible color surfacing system.

- J. CAUTION: Do not allow petroleum products to be spilled on the Nova'ProXtreme surface.

4.01 CLEAN UP

- A. Upon completion of the work, the contractor shall remove all containers, surplus materials and debris and have the site in a clean and orderly condition acceptable to the {Owner} {Architect} {Landscape Architect} {Engineer}.
- B. Provide {Owner} {Architect} {Landscape Architect} {Engineer} with Nova'ProXtreme Maintenance Manual at completion of project in accordance with Section {01700} {01730} of the Project Manual.

END OF SECTION
(revised 08/18/08)

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DATA SHEET NOVA'PRO TENNIS SYSTEMS

Nova'ProXtreme

	<u>U .S. INFO</u>	<u>METRIC</u>
NONIMALTHICKNESS	.12 inches	3 mm
TOTAL WEIGHT	85 oz/sy	2882 g/smtr
COMPRESSION SET	<15%	< 15%
COMPRESSION RESISTANCE	5 lbs/sq inch min	14.6kg/sq cm min
ROLL WIDTH	146 inches	3.7 meters
ROLL LENGTH	60 foot	18.29 meters
CONSTRUCTION	Low Heat Lamination	
BACKING PRECOAT	Urethane	
FACE INTERLINER	PU Saturated Mult Polyester Sandwich	
CUSHION LAYER	Open Cell Urethane Foam	

DESCRIPTION

- Open cell urethane foam, sealed with a multi-ply polyester cover layer which is impregnated with a natural urethane sealant of synthetic polymers and flexible acrylic finishing materials.
- Stabilized cushion overlay
- 1 Rolls, each 12' X 60' in size required per standard 60' X 120' court

1-03-10



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NovaProXtreme®

TEST RESULTS ANALYSES / OVERVIEW

Independent testing results from a certified lab are an important and relevant diagnosis and precursor to the success of any product. Testing results provide a keen insight into the success of the product.

In developing our NovaProXtreme® product we tested for the following characteristics to evaluate the material under severe site conditions with various product applications in many environmental conditions. Tests were completed in hopes to exhibit qualities of safety and utilization with the system. Tests on the Xtreme included: flammability, water permeability and vapor transmission, strength of fabric under duress, stability under high and low temperature conditions and effects of water on the material.

FLAMMABILITY: The fire test response standard describes a test method for the determination of the flammability of materials when exposed to an ignition source under controlled laboratory conditions. The acceptance criterion of these standards requires that at least seven (7) out of eight (8) individual specimens pass the test; Xtreme passed with ALL test samples.

VAPOR TRANSMISSION: The water vapor transmission test, WVTR, is used to determine the amount of water vapor that could transmit up from a wet substrate. The Xtreme, although not intended as a vapor barrier, is constructed to assist in preventing running water from infiltrating and damaging the base or asphalt. As the test results indicate, the product prevents water from draining into the underlying base yet will allow limited amounts of vapor transmission from a wet substrate to vent thru the surface. This amount of transmission is greatly diminished once the surface is primed to receive color system on top. The Xtreme tested an average of less than 3 grams or .007 gals of water vapor transmitted upward over a 24-hour period.

TENSILE STRENGTH: Xtreme was also tested and evaluated for tensile properties. This assists to ensure the product performs well under the duress involved with installation of the tennis surface as well as heavy use associated with the finished court. Constant stop, start and dynamic competition forces from an athlete's contact with the surface can place strain on the underlayment and surface. NovaProXtreme performed well with greater than 154 psi lengthwise and over 202 psi across its width. The material was able to elongate over 26% and can also withstand upwards of 46.5 lbs of peak force with regards to usable values related to the products' tear strength.

STABILITY: As tennis courts are installed in very diverse climatic environments the Xtreme needed to be extremely stable in dry, wet, hot, cold and humid weather conditions. To be dimensionally and thermally stable a fabric should not exceed a 0.027-inch change in length or cross direction when subjected to these diverse conditions. At no time did the Xtreme change more than .014" in either direction, with an average change of only .007".

As testing proves, the physical properties of the NovaProXtreme® provide unparalleled performance characteristics and assist with improving the characteristics of the tennis court.

Scope: This specification is intended for use as a guideline for the resurfacing of existing asphalt or concrete finished with a cushioned American Hard Court® surface using the unique, Nova'ProXtreme system.

SECTION 02542



Nova'ProXtreme Basketball Surface RESURFACING OVER ASPHALT OR CONCRETE

PART 1 - GENERAL

1.01 SUMMARY

- A. This section includes and is not limited to:
1. Installation of the Nova'ProXtreme cushioned Basketball court overlay consisting of a nominal thickness of 3 mm or 5 mm resilient open-celled urethane foam which is attached to a multi-ply polyester fabric impregnated with a natural soy based urethane and then coated with flexible acrylic finishing materials. Rolls are 12' wide, all seams are bonded with a one component urethane adhesive and fabric seaming tape.
 2. Preparation of existing asphalt or concrete base to receive new surfacing.
 3. Basketball net posts, foundations and anchor straps.

1.02 QUALITY ASSURANCE

- A. Nova'ProXtreme Basketball surface shall be constructed by an approved installer certified by NGI Sports (NGI). The Nova'ProXtreme system shall meet manufacturing specifications set up for same.
- B. All material shall be clearly marked.
- C. Material shall not be installed when rain is imminent or the temperature is below 50°F.
1. The installation of the Nova'ProXtreme system shall be completed in dry weather.
 2. Neither surface nor base may be moist or wet.
 3. Fabrication should be done in dry weather with the temperature above 50° F and rising.

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1.03 WARRANTY

A. Materials shall have a minimum limited warranty supplied by the manufacturer.

B. Contractor to provide {Owner} {Architect} {Landscape Architect} {Engineer}, upon completion of warranty application, written warranty at completion of project in accordance with Section {01700} {01740} of the Project Manual.

PART 2 - PRODUCTS

2.01 SURFACING SYSTEM FOR BASKETBALL

A. The Nova'ProXtreme mats shall consist of materials that shall meet the following minimum specifications.

Moisture Absorbtion	< 10% weight
Construction	Low Heat Lamination
Mat Nominal Minimum Thickness	3mm or 5 mm
Roll Width	12'
Roll length	60'
Base Sheet Interliner	Multi-Ply Polyester
Base sheet @ 5% elongation weft	615
Base sheet 5% elongation warp	410
Base sheet resistance to sheer weft	49.10
Base sheet resistance to sheer warp	47.10
Cushion Layer	Open Cell Urethane Foam
System Weight	12.5 for 3mm psy 17.5 for 5mm psy

B. Seams: Weather resistant scrim tape and urethane adhesive as recommended by system manufacturer.

C. Interface: Nova'PX-ACR Flexible Binder (interface coating) shall be of the quality approved by system designer, NGL.

D. Finish: Nova'PX-Finish (flexible color surfacing materials) shall be of the quality approved by system designer, NGL.



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PART 3 - EXECUTION

BASE PREPARATION

3.01 EXISTING ASPHALT OR CONCRETE SURFACE PREPARATION

- A. The Nova'ProXtreme Basketball surfacing system shall be installed on a sound base surface with surface tolerance not exceeding 1/8" in 10' when measured in any direction with a minimum slope in one direction of 1" in 10'.
1. Once the surface has been thoroughly cleaned and is free of all loose material, dirt, dust, and foreign debris, the court should be flooded with water and allowed to drain. Any area holding water a depth greater than 1/16" (thickness of a nickel) shall be outlined and patched.
 2. Surface Leveling: Birdbaths shall be leveled using the following
 - a. Area to be patched shall be primed using five parts water to one part acrylic patching compound.
 - b. Primer to be brushed into place and allowed to dry prior to placement of the patch.
 - c. Surface Patch: Mix thoroughly five gallons of acrylic compound binder, five gallons of silica sand and one pint Type I Portland Cement. Applied in layers up to 2" deep.
 3. Cracks shall be cleaned, primed and filled with dry silica sand up to 1/2" of top surface profile and then filled to 1/8" to top of crack with a flexible joint compound. A rigid thin mylar film tape shall be laid over cracks 3/4" and larger to prevent shadowing after surfacing.

3.02 INSTALLATION OF BASKETBALL COURT ACCESSORIES

Post foundations shall be not less than 24" in diameter at the top, not less than 30" in diameter at the bottom, and not less than 36" in depth.

- A. Foundations shall be situated so as to provide a clear distance between posts of 33' on single courts and 42' on double courts. The metal anchor strap, located at the center of the net, shall be set in a concrete footing measuring



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- B. 12" in diameter and 12" deep.
- C. Square footings and foundations are not acceptable.
- D. Basketball nets shall be installed, upon completion, to posts and cables for a neat, taut appearance.

3.03 Nova'ProXtreme Surfacing System

- A. The surface course shall be installed according to manufacturer's specifications.
- B. All surface course materials are to be installed after the surface has been inspected and approved by the {Owner} {Architect} {Landscape Architect} {Engineer}.
- C. Specially engineered base sheet layer, Nova'ProXtreme Mats shall be placed over subbase and seamed in accordance with manufacturer's instructions.
- D. Apply multiple applications of Nova'PX-ACR Binder to seams to smooth texture and feather seams so they are not visible after installation.
- E. All joints shall be attached with a special combination of a urethane adhesive and a weather resistant scrim laminated polyester tape as recommended by system manufacturer. Heat seaming methods are not allowed.
- F. Inspect entire surface for imperfections; grind and scrape surface to remove any imperfections which may exist.
- G. Fill & Texture: Apply one coat by rubber squeegee of Nova'PX-ACR Binder to achieve an even texture throughout the surface area.
- H. Edging: Apply edge trim, Nova'PX Edge Tape to perimeter of court to seal all surface edges.
- I. Finish: Apply Nova'PX-Finish, approved flexible color surfacing system.
- J. CAUTION: Do not allow petroleum products to be spilled on the Nova'ProXtreme surface.

4.01 CLEAN UP



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- A. Upon completion of the work, the contractor shall remove all containers, surplus materials and debris and have the site in a clean and orderly condition acceptable to the {Owner} {Architect} {Landscape Architect} {Engineer}.
- B. Provide {Owner} {Architect} {Landscape Architect} {Engineer} with Nova'ProXtreme Maintenance Manual at completion of project in accordance with Section {01700} {01730} of the Project Manual.

END OF SECTION
(revised 05/26/10)

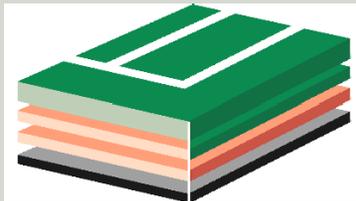
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NOVAPRO'XTREME

SUPERIOR SURFACING SYSTEMS FOR BASKETBALL, TENNIS AND TRACK



- ⇐ Playing Surface/Line Marking
- ⇐ Thermally & Dimensionally Stable Fabric
- ⇐ 3mm Stratum of urethane foam
- ⇐ Recycled fabric back
- ⇐ Base: Asphalt, Concrete

* **Superior Safety:** Shock absorbing; seamless uniformity; optimum friction.

* **Superior Durability:** A stable system featuring a renewable wear surface that can be professionally refurbished.

* **Lasting Beauty:** Color stability, permanent game line bonding and easy.

* **Permanent Performance:** Renewable wear layer can be recoated indefinitely.

GREAT VALUE

* **A Green Eco-Friendly Surface:** Xtreme features a unique, special soy based urethane technology.

* **Seamless Structure:** Strong, durable and free of heavy metals.

* **Thermal & Dimensionally Stable:** The proprietary interface scrim provides for excellent protection from point loads.

* **Unique Wear Surface:** Provides a delicate balance of surface friction and release to make it the best choice for basketball, running and tennis.



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MANUFACTURER’S EXTENDED WARRANTY NOVA’PRO-XTREME TENNIS SYSTEM

Warranty Conditions: NGI Sports, a Division of River City Athletics (hereafter NGI) manufactures the Nova’ProXtreme system. Subject to the terms and conditions stated herein, NGI warrants that, for a period of twenty-five (25) years under unlimited hours of normal tennis play, Nova’ProXtreme...

- * will not deteriorate from rot, mildew, microbacteria, alkali, detergent, smog, or other ecological influences, including snow, ice or temperature variation;
- * will not separate along the seams;
- * will retain substantially, its tensile stability and resiliency of its foam underlayment; and
- * will retain reasonable consistency in the ball bounce height and skid-speed qualities.

In the event Nova’ProXtreme fails one or more of the above described warranty conditions, NGI shall, at its sole discretion and sole expense, repair or replace the entire Nova’ProXtreme surface, or just a portion thereof in order to correct the defective condition.

Requirements: NGI’s Warranty shall not be valid, unless:

- * NGI Certified Installer has provided NGI with Notice of Installation certifying that the Project was properly supervised and installed in compliance with the established NGI Installation Procedures;
- * This Notice of Installation form is executed and submitted to NGI within 30 days after completion of the Project;
- * Customer provides NGI and Installer with written notice, within 30 days from the date Customer first discovers the problem, describing the details of the problem.
- * Customer completes a site survey annually, in one year incremental periods and reports surface conditions in writing to NGI.
- * Customer contracts with an NGI approved contractor using NGI approved surfacing materials, coatings, methods and guidelines to resurface said courts prior to the last day of the sixth, eleventh, sixteenth, and twenty-first years from the original date of completion of the project and warranty. All costs for resurfacing are the responsibility of the Customer.

NGI reserves the right to investigate the reported problem to determine the validity of the problem and the extent of any warranty coverage.

Limitations of Warranty: NGI’s Warranty shall be limited to repair or replacement of the Nova’ProXtreme as specified herein. Under no circumstances shall NGI provide any warranty for any defects in the material, quality, or workmanship of the Nova’ProXtreme, or for any damages or liabilities, in connection with, arising from, or resulting from

- * acts of God, or conditions beyond NGI’s control;
- * negligent installation by Installer;
- * negligent use, non compliance of general recommended maintenance or upkeep of the Project by Customer;
- * any base, sub-base or concealed site conditions, including any and all preparation work performed by Installer; any base, sub-base conditions existing prior to the installation of the Nova’ProXtreme.
- * Conditions on site which are (1) subsurface or otherwise concealed physical conditions or (2) unknown physical conditions of any unusual nature and which differ from conditions encountered at installation or (3) differ to those conditions described to NGI.
- * any manufacturing, preparation and/or application of any coating/painting onto the Nova’ProXtreme;
- * any failure to comply with the Requirements stated herein.

Project Name:
 Project Address:
 Project Owner:
 Date of Installation:
 Installed By:
 Warranty Expiration Date:

Signature – Installation Company

WA #
TW #

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NovaProXtreme®

TEST RESULTS ANALYSES / OVERVIEW

Independent testing results from a certified lab are an important and relevant diagnosis and precursor to the success of any product. Testing results provide a keen insight into the success of the product.

In developing our NovaProXtreme® product we tested for the following characteristics to evaluate the material under severe site conditions with various product applications in many environmental conditions. Tests were completed in hopes to exhibit qualities of safety and utilization with the system. Tests on the Xtreme included: flammability, water permeability and vapor transmission, strength of fabric under duress, stability under high and low temperature conditions and effects of water on the material.

FLAMMABILITY: The fire test response standard describes a test method for the determination of the flammability of materials when exposed to an ignition source under controlled laboratory conditions. The acceptance criterion of these standards requires that at least seven (7) out of eight (8) individual specimens pass the test; Xtreme passed with ALL test samples.

VAPOR TRANSMISSION: The water vapor transmission test, WVTR, is used to determine the amount of water vapor that could transmit up from a wet substrate. The Xtreme, although not intended as a vapor barrier, is constructed to assist in preventing running water from infiltrating and damaging the base or asphalt. As the test results indicate, the product prevents water from draining into the underlying base yet will allow limited amounts of vapor transmission from a wet substrate to vent thru the surface. This amount of transmission is greatly diminished once the surface is primed to receive color system on top. The Xtreme tested an average of less than 3 grams or .007 gals of water vapor transmitted upward over a 24-hour period.

TENSILE STRENGTH: Xtreme was also tested and evaluated for tensile properties. This assists to ensure the product performs well under the duress involved with installation of the tennis surface as well as heavy use associated with the finished court. Constant stop, start and dynamic competition forces from an athlete's contact with the surface can place strain on the underlayment and surface. NovaProXtreme performed well with greater than 154 psi lengthwise and over 202 psi across its width. The material was able to elongate over 26% and can also withstand upwards of 46.5 lbs of peak force with regards to usable values related to the products' tear strength.

STABILITY: As tennis courts are installed in very diverse climatic environments the Xtreme needed to be extremely stable in dry, wet, hot, cold and humid weather conditions. To be dimensionally and thermally stable a fabric should not exceed a 0.027-inch change in length or cross direction when subjected to these diverse conditions. At no time did the Xtreme change more than .014" in either direction, with an average change of only .007".

As testing proves, the physical properties of the NovaProXtreme® provide unparalleled performance characteristics and assist with improving the characteristics of the tennis court.