



*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, patented Nova=ProBounce system.*

## SECTION 02542

# **Nova'ProBounce™**

CUSHIONED HARD COURT COMFORT

### **NOVA=PROBOUNCE TENNIS 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 patented Nova'ProBounce monolithic pavement "CushionCourt" tennis court consisting of a base sheet of synthetic fibers and fabric interlocked with select aggregates, 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=ProBounce tennis surface shall be constructed by an approved licensee certified by NGI Sports (NGI). The Nova'ProBounce 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=ProBounce system shall be completed in dry weather.
  2. Neither surface nor aggregates 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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2807 WALKER ROAD . CHATTANOOGA TN . 37421 . 1-800-835-0033 FAX: 1-423-499-8882  
E-mail: [info@ngisports.com](mailto:info@ngisports.com) Website: [www.ngisports.com](http://www.ngisports.com)

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=ProBounce base sheet, Nova=PB-Stratum shall consist of artificial fibers that shall meet the following minimum specifications.

|                          |                      |
|--------------------------|----------------------|
| 1. Tufting Construction  | ASTM D418            |
| 2. Breaking Elongation   | 124%, ASTM D1682     |
| 3. Breaking Load         | 181 lbs, ASTM D1682  |
| 4. Grab Tear Strength    | 100 lbs, ASTM D 1682 |
| 5. Seam Tensile Strength | 55 lbs/inch, minimum |
| 6. Melting Point         | 334.4° F, ASTM D 789 |
| 7. Flammability Test     | Pass, ASTM E108      |

B. Granular Fill Material: Nova=PB-TexFill, shall consist of approved 30-70 mesh infill granules applied at a rate of approximately two point two (2.2) lbs per square foot. All aggregate shall be kept dry.

C. Seams: Nova=PB-Bond, weather resistant polyester tape and one component, moisture cured urethane adhesive as recommended by system manufacturer.

D. Resin Binder: Nova=PB-PolySeal (acrylic binder) shall be of the quality approved by system designer, NGL.

E. Interface: Nova=PB-ACR Binder (interface coating) shall be of the quality approved by system designer, NGL.

F. Finish: Nova=PB-Finish (color surfacing materials) shall be of the quality approved by system designer, NGL.

### **2.02 TENNIS COURT ACCESSORY MATERIALS**

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.

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- B. 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".
- C. 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=ProBounce 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=PB-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=PB-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 profile and then filled to 1/8" to top of crack with a flexible joint compound. A rigid thin film tape, Nova=PB-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.

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- 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=PROBOUNCE 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=PB-Stratum shall be placed over subbase in accordance with manufacturer's instructions.
- E.** All sections of the base sheet layer are to be laid out in the same direction.
- F.** All joints shall be attached with Nova=PB-Bond, a special combination of a one-component, moisture cured urethane adhesive and a weather resistant polyester tape as recommended by system manufacturer. Heat seaming methods are not allowed.
- G.** Base Sheet In fill: Using a special mechanical mix device to filter the material into the fabric, the Nova=PB-TexFill material in fill shall be filtered into the surface mat in several light layers and shall be brushed in to allow for compaction and a level finish.
- H.** Prime Coat: Entire area to receive a primer coat of Nova=PB-PolySeal binder blended with a pre-measured quantity of Nova=PB-Colorant and allowed to cure for a minimum of 24 hours. All materials to be spray applied using the Nova=PB-AppSYS.
- I.** Seal Coat: Entire area to be saturated with a seal coat of Nova=PB-Polyseal blended with a pre-measured quantity of Nova=PB-ACR Binder and allowed to cure for a minimum of 24 hours. All materials to be spray applied using the Nova=PB-AppSYS.
- J.** Inspect entire surface for imperfections; grind and scrape surface to remove any imperfections

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which may exist.

- K.** Fill & Texture: Apply one coat by rubber squeegee of Nova=PB-ACR Binder to surface to prepare area to receive Nova'PB-Finish color surfacing materials.
- L.** Edging: Apply edge trim, Nova'PB Edge Tape to perimeter of court to seal all surface edges.
- M.** Finish: Apply Nova=PB-Finish, approved flexible color surfacing system.
- N.** CAUTION: Do not allow petroleum products to be spilled on the Nova=ProBounce 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'ProBounce Maintenance Manual at completion of project in accordance with Section {01700} {01730} of the Project Manual.

END OF SECTION  
(revised 01/31/07)

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