



## PRODUCT SPECIFICATION FOR THE QCI PREMIER – A CUSHIONED ACRYLIC SURFACING SYSTEM FOR TENNIS, PICKLEBALL AND BASKETBALL COURTS.

### PART 1 – SCOPE OF WORK

#### 1.01 **Work Included**

This work includes furnishing and installing New Cushioned Acrylic surfacing and striping for concrete or asphalt tennis, pickleball, and basketball courts.

#### 1.02 **Description of System and General Conditions**

This Specification shall define the Color Coating system application and striping applications for outdoor concrete or asphalt tennis courts, pickleball courts and basketball courts. All work required for Sub-base construction, drainage, fencing, and concrete is outlined in the specification of the American Sports Builders Association, (USTC & TBA).

All court Acrylics must be applied by method of squeegee or proper spray pump apparatus and must be applied by an experienced installer. Each coat must be fully cured before applying additional coats. The result will be a durable, resilient, all-weather surface.

#### 1.03 **Codes and Standards**

Codes and Standards follow the current guidelines set forth by the National Federation of State High School Associations (NFSHSA), the National Collegiate Athletic Association (NCAA), International Tennis Federation (ITF), and the American Sports Builders Association (ASBA)

#### 1.04 **Contractors Pre-Qualification Requirements**

- A. Contractor must have been in business for minimum of (5) years, must have experience with similar projects, and must provide Owner with list of at least (5) similar jobs completed within the last 5 years.
- B. Contractor must be a member in good standing with the American Sports Builders Association. (ASBA) This is to ensure that the contractor has met the requirements set forth to be able to perform this specialty work.
- C. Contractor must be licensed in the state in which the work is to be performed and entitled to practice the following classifications: Tennis courts and Athletic tracks.
- D. The synthetic surfacing material manufacturer shall submit a letter stating that the surfacing contractor is qualified to install its synthetic surface products and systems.

#### 1.05 **Contractors Responsibility**

- A. Furnish owner with an estimated start date.
- B. Start and complete project in a timely manner as specified in the contract documents
- C. Furnishing all labor, materials, equipment and taxes to fully execute job.
- D. Furnish and maintain temporary flagging and barricades as required to protect employees and public at all times.
- E. Daily clean-up of trash and debris.
- F. Contractor must carry proper insurance. (A 30 day cancellation notification shall apply to all policies).

## 1.06

### **Insurance Requirements**

#### A. **Commercial General Liability**

- General Aggregate \$2,000,000
- Personal Injury \$1,000,000 per occurrence
- Each occurrence \$1,000,000

#### B. **Commercial Business Automobile Liability**

- Combined Single Limit of \$500,000 per occurrence

#### C. **Workers' Compensation**

- Bodily Injury by Accident \$1,000,000 per accident
- Bodily Injury by Disease \$1,000,000 per accident

#### D. **Commercial Liability Umbrella**

- \$1,000,000.00 liability

## 1.07

### **Warranty**

- A. All surfacing materials and labor shall be warranted for a period of no less than one (1) year.

## 1.08

### **Approved Manufacturer/Installer/**

Quality Court Industries  
5661 Brownfields Dr.  
Baton Rouge, LA 70811  
225-774-9974 – Phone  
225-774-9984 – Fax  
[www.qualitycourt.com](http://www.qualitycourt.com)

## **PART 2- MATERIALS FOR COLOR COATING SYSTEM**

### 2.01

#### **Approved Materials**

- A. \*Epoxy primer (when necessary – see below)
- B. 1L Concrete Primer
- C. Patch Binder – (Latex cement additive)
- D. \*Crack filler (could be acrylic / polyurethane / and/or other)
- E. Acrylic Resurfacer
- F. Cushion
- G. Color Concentrate – (paint)
- H. Textured Line Paint
- I. Silica Sand – 80 - 120 Mesh
- J. Water – Clean and Fresh

### 2.02

#### **Approved Materials Suppliers for the QCI Classic Surfacing System**

Laykold – by APT (Advanced Polymer Technologies)

World Class Athletic Surfaces  
Deco Turf – by California Products Corp.  
Plexipave – by California Products Corp.  
Acrytec – by AT Sports

## PART 3- SURFACING PROCEDURES

### 3.01 Surface Preparation

The surface to be coated must be sound, have adequate drainage, and must be washed to remove any dirt, grease, dust, and or any delaminated areas. All patching must be completed before surfacing materials are applied. All concrete must be cured for a period of 30 days prior to surfacing. ASBA Tennis Manual states that the slope is 0.83 minimum to 1% maximum.

### 3.02 Acid Etching (on new slabs only)

NEW Concrete slabs must be etched with Phosphoric or Muriatic Acid. Acid must be mixed properly and applied with a broom to ensure proper etching. Acid shall remain on slab until all etching is complete. Acid shall be completely pressure washed off immediately after etching.

### 3.03 Flooding and Patching

Slab must be flooded to expose birdbaths (areas that hold water). Flood slab, then allow slab to drain for 1 hour in warm sunny conditions, more time must be allowed during colder overcast conditions. After proper draining, mark all birdbaths that are greater than 1/8" (nickel depth). All birdbaths must be patched using approved Court Patch Binder Mix. All areas that need patching shall be primed first. Adequate parts of patch binder, silica sand, and Portland cement shall be blended together and applied for a resilient patch. All patches shall blend into existing slab. Some sanding may be required for blending. Fill all cracks with approved tennis court crack filler. Larger Cracks may need to be filled using the above court patch binder (Portland) mix. Bad cracks may need to be coated with Acrylic Re-surfacer before surfacing materials are applied.

### 3.04 Prime Coat (on new slabs) – AS PER MANUFACTURES RECCOMENDATIONS

All Typical Slabs must be primed by mixing 1part Concrete Primer to 2 parts water. Primer must be applied with a broom to ensure proper priming. Primer should not be allowed to puddle.

ALL NEW CONCRETE SLABS – 1L CEMENT – MUST INCLUDE A PRIMER DESIGNED FOR 1L CONCRETE.

\*ALL NON-TYPICAL SLABS THAT DO NOT HAVE A MOISTURE BARRIER, OR THAT DO NOT HAVE A BROOM TEXTURED FINISH, OR THAT HAVE FLYASH IN THE CONCRETE MIX DESIGN, MUST USE AN EPOXY PRIMER. EPOXY PRIMER MUST BE APPLIED WITH A ROLLER, OR SPRAY APPLIED USING AN AIRLESS SPRAYER.

### 3.05 Acrylic Resurfacer- Base Coat (one coat new concrete courts, or existing courts. Two coats required for all new Asphalt courts or extremely rough courts).

**Apply one coat of Acrylic Resurfacer – as per manufactures recommendations**, to improve the look and planarity of the slab, provide a tight blemish free base, and to provide better adhesion for the paint surface. Adequate parts of sand, water, and Acrylic Resurfacer shall be blended together to provide a resilient base. Acrylic Resurfacer shall be applied by method of squeegee at a rate of .04 - .06 gallons per sq./yd. for the purpose of filling in small pits and covering small voids. (Slab shall be scraped between all coats to remove trash that may collect while applying) **IMPORTANT: (2) COATS OF ACRYLIC RESURFACER MAY BE REQUIRED ON NEW ASPHALT COURTS, OR ON ANY COURT THAT HAS A ROUGH TEXTURE. THE OWNER SHALL DECIDE HOW MANY COATS ARE REQUIRED PRIOR TO BID.**

- 3.06**            **Large Cushion**  
Apply two (2) coats of Granule Cushion Coat - Adequate parts of water, and Cushion shall be blended together to provide a resilient base. Cushion shall be applied by method of squeegee or by using an approved spray pump apparatus capable of spraying rubber filled granules suspended in acrylic binder.
- 3.07**            **Small cushion**  
Apply three (3) coats of Acrylic Small Cushion Adequate parts of water, and Cushion shall be blended together to provide a resilient base. Cushion shall be applied by method of squeegee or by using an approved spray pump apparatus capable of spraying rubber filled granules suspended in acrylic binder.
- 3.08**            **Paint Surfacing**  
**Apply two (2) to three (3) coats of Color Concentrate (Court Paint).** Adequate parts of sand, water, and Color Concentrate shall be blended together to provide a resilient surface. Paint shall be applied by method of squeegee at a rate of .04 - .05 gallons per sq/yd for the purpose of filling in small pits and covering small voids. Allow enough time for paint coats to thoroughly dry before re-coating. (Slab may need to be scraped before applying second coat of paint)
- 3.09**            **Line Striping**  
Apply two coats of textured line paint after final surfacing coat is thoroughly dried. Lines must be 2" in width and shall conform to the regulations set forth by the American Sports Builders Association (USTC & TBA).
- 3.10**            **Logos and graphics**  
Install new logos on court as per drawings.

## **PART 4-COLOR**

- 4.01**            **Color of Courts.**  
Standard Colors are as follows: Dark Green, Medium Green, Grass Green, Red, Beige (Desert Sand), Dark Blue, Light blue, Pro blue, Burgundy. See QCI color chart. Specialty colors can be made upon request. Color will be chosen by owner or owner's representative and must be made a minimum of 72 hours before bid date.
- 4.02**            **Color Layouts and Scheme**  
Owner to choose prior to bid

## **PART 5 – LIMITATIONS**

**Material Limitations**  
Surfacing materials shall not be applied when temperatures are below 50°F or if temperatures are above 130°F. Do not apply material if slab is wet or if rain is apparent. Do not install materials if Freezing weather is apparent. Do not store materials in direct sunlight. Do not allow material to freeze. Keep containers sealed until use.

\*Crack Fillers are NOT a permanent fix for structural cracks. Their purpose is to fill the crack temporarily and provide a base for new surfacing materials applied over the top. This method is strictly aesthetic – intended to improve the appearance and planarity of an older court – BUT does not resolve the underlying structural issue. For this reason, structural cracks are not warrantied using this or any other crack repair method. It is important to understand that no two slabs are alike. Each is constructed differently, with variations in reinforcement methods, concrete thickness, and subbase preparation. Because of these differences, it is impossible to predict how or when cracks will reappear.

FACT: Structural cracks will recur due to natural factors such as:

Temperature Changes (thermal movement)

Moisture content in soils and subbase, and

Ground movement caused by the shrink-swell effect of soils.

THEREFORE, CRACKS ARE NOT WARRANTIED.