

## **Tennis/Basketball/Pickleball court color resurfacing. (Reflective crack membranes.)**

### PART ONE- GENERAL

#### 1.01 SUMMARY

- A. This work includes surface preparation including the ARMOR CRACK REPAIR SYSTEM and the acrylic color system applications for existing tennis court, basketball court, pickleball court, or similar athletic or play surface.

#### 1.02 QUALITY ASSURANCE

- A. Installing firm: Installer must regularly engage in construction and color acrylic surfacing. Documented experience in acrylic color system applications must be provided. Minimum of 10 projects similar in complexity in the last 3 years.
- B. Surfacing shall conform to the guidelines of the ASBA, (American Sports Builders Association), USTA (U.S. Tennis Association), and USAPA (U.S. A. Pickleball Association) respectively.
- C. Certified installer of ARMOR CRACK REPAIR SYSTEM.

#### 1.03 SUBMITTALS

- A. Provide manufacturer specifications for all products, color chart and installation instructions.

#### 1.04 MATERIAL HANDLING AND STORAGE

- A. Store materials in accordance with manufactures specifications and MSDS.
- B. All surfacing material shall be non-flammable.
- C. NO MATERIAL STORED ON SITE during the duration of the project unless fully secured with fencing.

#### 1.05 GUARANTEE

- A. Provide guarantee against defects in the materials and workmanship for a period of one year from the date of substantial completion unless otherwise stated.

### PART TWO- PRODUCTS

#### 2.01 MANUFACTURERS

- A. U.S. Tennis Court Construction Company Lockport, IL 60441/ Elite Sport Coating System.
- B. A.S.T., LLC Farmingdale, NJ 07727/ ARMOR CRACK REPAIR SYSTEM
- C. Approved equal products.

#### 2.02 MATERIAL

- A. Patching Mix (Elite Patch Binder)-for use in patching cracks, holes, depressions, "birdbaths" and other surface imperfections.
- B. Acrylic Patch Crack Filler (Elite Acrylic Patch Crack Filler)-for use in filling cracks
- C. Acrylic Resurfacer (Elite Acrylic Resurfacer)- Mixed with approved silica sand and applied as a filler coat on new or existing asphalt surfaces and for pre-coating rough areas.
- D. Acrylic Color Playing Surface (Elite Color Concentrate) mix with approved silica sand and applied over acrylic resurfacer or textured acrylic color.
- E. Textured Line Paint (Elite Textured Line Paint)-for use as line or graphic marking on play surface.
- F. ARMOR Adhesive (Follow Armor Crack Repair Guidelines) Adhesive used in bonding ARMOR CRACK REPAIR SYSTEM layers.

G. *ARMOR CRACK REPAIR SYSTEM*- Expandable tapes fabrics applied over prepared cracks.

### PART THREE- EXECUTION

#### 3.01 WEATHER LIMITATIONS

- A. Do not install when rain is imminent or extremely high humidity prevents drying.
- B. Do not install if surface is wet or damp.
- C. Do not apply unless surface and air temperatures are 50°F and rising. \*above 60°F during crack repair installation.
- D. Do not apply if surface temperature is more than 140°F.

#### 3.02 PREPARATION FOR ACRYLIC COLOR SYSTEM.

- A. Surface shall be thoroughly cleaned of all dirt, debris, and vegetation using floor scrapers, wire brooms, and mechanical blowers.
- B. Surface areas with embedded dirt, or algae growth shall be pressure washed. Entire surface washing may be required. Surfaces shall be power washed using a deck power washing unit or Hydo-Jet-Blaster, wand washing will not be accepted. Surface, fencing, and athletic equipment shall be thoroughly rinsed following surface washing.
- C. Cracks with vegetation shall be treated with herbicide. Cracks shall be routed with a mechanical crack router. All loose material and old or foreign crack filler shall be completely removed.

#### 3.03 CRACK FILLING

- A. Cracks shall be filled from bottom to top with acrylic patch crack filler. Special care shall be taken to assure all void space is filled. Multiple applications will be required to level crack filler with adjacent surface.
- B. Sand and pre-coat as needed to assure repairs are not visible following acrylic surface applications.
- C. Strictly follow manufactures mixture guidelines and moisture limitations.

#### 3.04 ARMOR CRACK REPAIR SYSTEM

- A. Install ARMOR CRACK REPAIR SYSTEM over fully prepared cracks.
- B. Strictly follow manufactures installation guidelines.

#### 3.05 COURT DEPRESSIONS "BIRDBATHS"

- A. Testing: Surface shall be flooded with water by rain or manually with clean water. Surface shall be allowed to drain for 45-60 minutes in sunlight at 70°F. Remaining depressions holding enough water to cover a five cent piece (American Nickel) shall be marked.
- B. Apply acrylic patch binder mix to depressions and strike off with a straight edge. Before the product begins to dry, feather edges using a trowel, putty knife, or similar method.
- C. Repeat testing and acrylic patch binder applications as needed to eliminate or reduce depressions to within tolerance.
- D. Sand and pre-coat as needed to assure repairs are not visible following acrylic surface applications.
- E. Strictly follow manufactures mixture guidelines and weather limitations.

### 3.06 ACRYLIC FILLER COAT(S) (RESURFACER)

- A. Apply two (2) coats of properly textured acrylic resurfacer shall be applied to entire surface. Special care shall be taken to keep a wet edge and remain consistent.
- B. When surface is completely dry, surface shall be inspected for, ridges, bumps, and debris. Any inconsistencies shall be corrected prior to color coat applications.
- C. Strictly follow manufactures mixture guidelines and weather limitations.

### 3.07 ACRYLIC COLOR PLAYING SURFACE

- A. Complete a thorough inspection, remove any bumps or ridges in resurfacer coats, and clean surface of all loose dirt, leaves, or other debris.
- B. If the surface is to receive multiple colors, apply chalk lines to distinguish the court area from the perimeter area. Follow USTA & USAPA guidelines for court dimensions.
- C. Colors and their placement shall be determined by the owner. Colors and the placement of the colors shall be verified by the owner prior color applications.
- D. Textured acrylic color surface shall be applied in two (2) applications with a 50 durometer rubber squeegee. No application should be made until the previous application is thoroughly dry.
- E. Strictly follow manufactures guidelines and weather limitations.

### 3.08 LINE PAINTING

- A. Lines shall be carefully laid out in accordance with the USTA & USAPA guidelines.
- B. Masking tape shall be applied and rolled to result in a two inch (2") wide width unless otherwise stated.
- C. Masked lines shall be primed with acrylic line primer to seal the void between the textured surface and masking tape edge.
- D. One (1) coat of textured white line paint shall be applied by brush or roller. **NO SPRAY APPLICATIONS PERMITTED.**

### 3.09 PROTECTION

- A. Erect temporary barriers to protect coatings during drying and curing.
- B. Lock gates to prevent use until acceptance by the owner.

### 3.10 CLEAN UP

- A. Site shall be cleared of all construction debris, all waste shall be disposed of offsite in accordance with local, state and federal regulations.
- B. Remove all barriers and locks.