

# Surfacing and Resurfacing Specification for Tennis Courts and Recreational Surfaces

## **PART 1 – GENERAL**

### **1.1 General Description**

A. This specification is for a colored and textured acrylic surfacing system for use on asphalt and concrete tennis courts, basketball courts, running tracks, volleyball courts, and other recreational surfaces.

B. This specification is for the surfacing/resurfacing of tennis courts/recreational surfaces located at \_\_\_\_\_.

City

State

Zip

### **1.2 Quality Assurance**

A. All work shall conform to American Sports Builders Association (ASBA) guidelines.

B. All coatings, patching and resurfacing compounds shall be ACRYTECH by Stegas, Inc. of Austell, GA or approved equal.

C. For Tennis Courts, the surfacing system must be International Tennis Federation court pace classified as category 3 medium.

D. The contractor shall record the batch number of each product used on site and maintain it through the warranty period.

E. The contractor shall provide the inspector, upon request, an estimate of the volume of each product to be used on site. For volume estimates, visit [www.tennispaint.com](http://www.tennispaint.com) and see the Paint Estimator.

### **1.3 Submittals** (see [www.tennispaint.com](http://www.tennispaint.com) for items A-C)

A. Technical Data Sheets (TDS) for system components and one color chart

B. Material Safety Data Sheets (MSDS) for system components

C. Manufacturer's warranty of no less than one year

D. Installer Certification from the manufacturer

### **1.4 Material Handling and Storage**

A. Store and move materials in accordance with the manufacturer's TDS and MSDS.

## **PART 2 – PRODUCTS**

### **2.1 Manufacturer**

- A. Stegas, Inc., Austell, GA, Product: ACRYTECH, [www.tennispaint.com](http://www.tennispaint.com)
- B. Approved Equal: Submit documentation to demonstrate to the owner that alternate products are of equal quality to the specified product.

### **2.2 Materials**

- A. ACRYTECH Sport Patch (Deep Patch): A 100% acrylic latex emulsion, that when mixed with Portland cement and sand, produces semi flexible latex concrete that is ideal for patching depressions over 1/4" deep and filling cracks larger than 3/8" wide. ACRYTECH Sport Patch is appropriate for use when applied to asphalt or concrete surfaces, or to previously coated surfaces.
  - 1. Percent solids by weight: 47%
  - 2. Weight: 8.8 lbs/gal
- B. ACRYTECH Adhesion Promoter(AcryLock): A 100% self-crosslinking, ultra-low VOC acrylic emulsion, that when mixed with 1 part water, penetrates, primes and creates a topside vapor barrier in concrete surfaces.
  - 1. Percent solids by weight: 43%
  - 2. Weight 8.7 lbs/gal
- C. ACRYTECH Acrylic Resurfacer: A 100% acrylic latex emulsion concentrate designed for the addition of water and silica sand on site for hiding patchwork, smoothing, and preparing for ACRYTECH Colorguard. Apply 1-2 coats as according to section 3.5.
  - 1. Percent solids and pigments by weight: 45%
  - 2. Weight: 9.5 lbs/gal
- D. ACRYTECH Colorguard: A 100% acrylic latex emulsion concentrate designed for the addition of water and silica sand (texture) on site to be used as a secondary and final coating.
  - 1. Percent solids and pigments by weight: 47%
  - 2. Weight: 9.8 lbs/gal
- E. ACRYTECH Colorguard Premix: Colorguard factory mixed with silica sand at the ITF Medium court pace classification rate.
  - 1. Percent solids by weight: 65%
  - 2. Weight: 12.5 lbs/gal
- F. ACRYTECH Line Primer: Optional clear drying primer to prevent line bleeding and create the most precise lines. Recommended for professional courts.

1. Percent solids and pigments by weight: 29%
  2. Weight: 10 lbs/gal
- G. ACRYTECH White Line Paint: A 100% acrylic latex emulsion textured bright white line marking paint. 20-25% of White Line Paint may be added to Colorguard colors to create lighter colors commonly used for QuickStart lines.
1. Percent solids and pigments by weight: 71%
  2. Weight: 12.4 lbs/gal

## **PART 3 – EXECUTION**

### **3.1 Limitations**

- A. DO NOT APPLY WHEN:
1. Rain is in the near forecast.
  2. Surface temperatures exceed 54°C (130°F). Surface temperatures may be reduced by misting surface with water prior to application except on the final coat of Colorguard.
  3. When ambient air temperatures are or will be below 1°C (34°F) within 48 hours.

### **3.2 New Construction (asphalt)**

- A. Allow asphalt to cure a minimum of 14 days.
- B. Inspect asphalt for irregularities, including contamination and unevenness. Findings, if any, shall be reported to general contractor.
- C. Remove any mold, mildew, algae, dirt, grease, oil and other debris from surface using issue-specific cleaners and rinse as needed.
- D. Flood surface with water to check for depressions 1/16" or greater. Fill with ACRYTECH Sport Patch (Deep Patch) as needed and allow to completely cure.

### **3.3 New Construction (concrete) – see ACRYTECH concrete prep TDS**

- A. For proper bonding, concrete should have a broom finish and a vapor barrier installed.
- B. Allow concrete to cure a minimum of 30 days.
- C. Inspect concrete for irregularities, including contamination and unevenness. Findings, if any, shall be reported to general contractor.
- D. Acid bath concrete using muriatic acid. Follow manufacturers' recommendations. Pressure wash and rinse as needed.

- E. Flood surface with water to check for depressions 1/16" or greater. Fill with ACRYTECH Sport Patch (Deep Patch) as needed.
- F. Prepare concrete with ACRYTECH Adhesion Promoter.

**3.4 Existing Construction (asphalt or concrete)**

- A. Pressure wash surface to remove mold, mildew, algae, dirt, grease, oil and other debris.
- B. Inspect surface for irregularities, including contamination and unevenness. Findings, if any, shall be reported to general contractor.
- C. Fill cracks with ACRYTECH Sport Patch (Deep Patch).
- D. Use other specified crack repair method if specified.

**3.5 Application - *No coatings shall be applied until inspector has approved the surface.***

- A. All Surfaces-apply coatings with soft rubber squeegee. Allow each coat to completely dry (usually 1-3 hours) prior to applying next coat.
- B. Mix Acrylic Resurfacer and Colorguard according to the charts below. If Colorguard Premix is used, only add 15-18 gallons of water per 40 gallons of Premix.
  1. Apply one to two coats of Acrylic Resurfacer (new or rough surfaces require two coats).
  2. Apply two coats of Colorguard - Standard durability suitable for most courts.
  3. Apply a third coat of Colorguard - Supreme durability for high use professional courts.

**ACRYTECH Acrylic Resurfacer Mixing Chart**

**27.5 gal concentrate - 1 or 2 coats**

<b>Filling Power</b>	Greater Filling (e.g. New asphalt)	Standard Filling
<b>Sand Grade</b>	80 mesh	80 mesh
<b>Sand Qty</b>	250 pounds	200 pounds
<b>Water</b>	15-18 gallons	15-18 gal

**ACRYTECH Colorguard Mixing and Court Speed of Play chart**

**27.5 gal concentrate - 2 to 3 coats**

<b>Speed of Play</b>	Medium-Slow	ITF Medium (Standard)	Medium-Fast
<b>Sand Grade</b>	80 mesh	80 mesh	80 mesh
<b>Sand Qty</b>	225 pounds	200 pounds	150 pounds
<b>Water</b>	15-18 gallons	15-18 gallons	15-18 gallons

**3.6 Line Markings**

- A. Apply only after ACRYTECH Colorguard is thoroughly dry, up to 24 hours after final coat.
- B. Lines shall be laid out in accordance with USTA guidelines
- C. Lines shall be applied by painting in between machine laid masking tape with a soft bristle brush or high-quality roller.
- D. Apply one coat of ACRYTECH Line Primer (optional) – Recommended for professional courts.
- E. Apply one coat of ACRYTECH White Line Paint. Depending on brush or roller quality, a second coat may be required.
  - 1. Up to 20 feet at a time if ambient air temperature exceeds 30°C (86°F).
  - 2. Up to 40 feet at a time if ambient air temperature is under 30°C (86°F).

### **3.7 Completion**

- A. Remove all construction equipment, leftover materials and waste from site.
- B. No traffic of any kind shall be allowed on the surface for a period of 24 to 72 hours. After that period, check surface to make sure the surface has sufficiently dried. Cloudy conditions, rain showers or temperatures below 70 degrees may extend the required drying time. ACRYTECH Recreational Coatings are fully cured in 30 days.