

# Advantage Specifications for Concrete Tennis Courts

## 1.0 Description

This specification describes the application of a new Advantage Color surface for new or existing concrete tennis courts. The court should be sound, properly sloped for drainage and free from excessive cracking. The system involves the repair of minor depressions and other defects before the application of Advantage Color.

The success of any color system is largely dependent on the condition of the surface on which it is applied. The surface should have a slope of one inch every ten feet to provide proper drainage. On new concrete surfaces, curing compounds must not be used. In addition, a suitable vapor barrier must be applied on all new concrete surfaces. Lastly, new concrete surfaces must have a broom finish. Do not provide a steel trowel finish. Consult American Sports Builders Association Specifications for complete information on pavement construction.

## 2.0 Materials

- 2.1 Phosphoric Acid (85%)
- 2.2 Advantage Prime
- 2.3 Advantage Patch Binder
- 2.4 Advantage Acrylic Fill
- 2.5 Advantage Cushion Base (Optional)
- 2.6 Advantage Cushion Turf (Optional)
- 2.7 Advantage Color Concentrate
- 2.8 Advantage Line Sharp
- 2.9 Advantage Line Paint

## 3.0 Application

### 3.1 Surface Preparation

New concrete surfaces should cure 28 days before any coating application. The surface should be thoroughly cleaned with compressed air and free from oil, grease, dirt and other foreign matter. Old coatings, color treatments or extremely smooth finishes should be water, shot or sand blasted. Flood the surface with water and mark all depressions greater than the thickness of a nickel after one hour drainage.

### 3.2 Acid Etching

Concrete surfaces must be acid-etched with a commercial grade of 85% phosphoric acid. Mix 1 gallon phosphoric acid with every ten gallons of water. Solution should be spread with a nylon or polypropylene bristle broom. Once etching is completed, the surface must be thoroughly flooded and squeegeed dry. Do not allow rinse water to set.

### 3.3 Prime Coat

Apply coat of Advantage Prime to all new concrete pavement and to patches on existing concrete surfaces where old coating has lost adhesion.

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### 3.4 Depressions

Fill marked depressions with patching mix of either Advantage Patch Binder or Advantage Acrylic Fill. Deeper depressions may require additional applications.

If using Advantage Patch Binder, scrub the area clean and tack with Advantage Prime or a solution of one part Patch Binder and two parts water.

To fill the depressions, utilize the following formulation:

3 gallons Patch Binder  
100 lbs. Silica Sand (40-70 mesh)  
2 gallons fine Portland cement

If using Advantage Acrylic Fill, scrub the area clean and tack with Advantage Prime or a solution of one part Acrylic Fill and two parts water.

To fill the depressions, utilize the following formulation:

10 gallons Acrylic Fill  
140-240 lbs. Silica Sand (40-70 mesh)  
1/2 gallon fine Portland cement

### 3.5 Leveling Coat

Apply one coat of Advantage Acrylic Fill utilizing the following formulation:

Advantage Acrylic Fill ... 55 gallons  
Silica Sand (40-70 mesh) ... 660-770 lbs.  
Water ... 27-30 gallons

### 3.6 Cushion Coats (Optional)

An optimum cushion system consists of three applications of Advantage Cushion Base and two applications of Advantage Cushion Turf. An absolute minimum cushion system should consist of two applications of Advantage Cushion Base and one application of Advantage Cushion Turf.

### 3.7 Color Coats

Apply two coats of Advantage Color Concentrate with a coverage rate of 0.05 gallon per square yard for each coat utilizing the following formulation:

Advantage Color ... 55 gallons  
Silica Sand (60-90 mesh) ... 330-440 lbs.  
Water ... 27-30 gallons

Care should be taken not to leave ridges. Apply second coat only after the first coat has dried. A sand free top coat may be applied if desired for a faster playing surface.

### 3.8 Lines

Apply a coat of Advantage Line Sharp between masking tape to prevent bleeding of line paint under the tape. Once dry, apply Advantage Line Paint for a crisp, clean line.

### 3.9 Weather Limitations

Do not apply any Advantage product if temperature is below 50° F or if freezing temperatures are anticipated that night. Do not apply on a wet surface or when rain is imminent. All Advantage products must be kept from freezing.

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