



# APPLICATION INSTRUCTIONS

## VULKEM™ SPORT COATING SYSTEM

Acrylic, Multi-Layer Sport Court  
Resurfacing System

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### 1. PURPOSE

- 1.1 The purpose of this document is to establish uniform procedures for applying the Vulkem™ Sport Coating System. This document describes application procedures for This document provides surface preparation and application instructions for athletic courts and running tracks.
- 1.2 The techniques involved may require modifications to adjust to jobsite conditions. If you have any questions at all about your application, contact your local Tremco Field Sales Representative for specific design requirements.

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### 2. SCOPE

- 2.1 These instructions apply to new construction and refurbishment of exterior and interior athletic courts constructed of asphalt or concrete. Applicable court types include:
  - Tennis courts
  - Basketball courts
  - Pickleball courts
  - Multi-sport play areas
  - Running tracks
  - General recreational surfaces

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### 3. LIMITATIONS

- 4.1 Do not apply to damp or contaminated surfaces.
- 4.2 Use with adequate ventilation.
- 4.3 Do not apply over frozen or saturated substrates.
- 4.4 Do not apply when temperatures will fall below 50°F (10°C) within 24 hours. Maximum substrate temperature 130°F (54°C).
- 4.5 Do not apply if rainfall is expected within 2–4 hours.
- 4.6 Water used in all mixtures shall be fresh and potable.
- 4.7 New asphalt must cure a minimum of 14 days; new concrete must cure a minimum of 28–30 days before application.

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### 4. STORAGE

Store materials upright in original, unopened containers. Protect from freezing, direct sunlight, and temperatures above 100°F. Clean tools with water before material dries. In case of spillage, absorb all material with a liquid absorbent (e.g., cat litter) and dispose of in accordance with Federal, State, and local regulations.

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### 5. JOBSITE MATERIALS

Recommended materials and their use are as follows:

**Vulkem™ Sport Acrylic Resurfacer:** 100% acrylic latex filler coat; mixed with sand and water on-site

**Vulkem™ Sport Color Coat:** 100% acrylic color filler/base coat and finish coat

**Vulkem® 45SSL:** A low-modulus, moisture-curing polyurethane sealant that is ideal for expansion joints in horizontal applications. Used as a crack filler for cracks >1/16 inch prior to resurfacer application

**Aggregate:** 50-70 mesh sand, which imparts a textured finish and contributes to slip and wear resistance.

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### 6. SUBSTRATE PREPARATION

Proper substrate preparation is critical for system adhesion and performance.

#### General Requirements:

Substrates must be thoroughly cleaned, sound, dry, and free of oils, dirt, debris, algae, mold, vegetation, or other bond-inhibiting contaminants. Spalls, delamination, potholes, scaling, pop-outs, and similar defects shall be repaired prior to coating application. All projections and surface irregularities shall be leveled to ensure uniform coating adhesion.

#### Asphalt Surfaces:

New asphalt must cure a minimum of 14 days before applying Vulkem Sport Acrylic Resurfacer.

Pressure wash thoroughly to remove all surface contaminants. Allow to dry completely before application.

#### Concrete Surfaces:

New concrete shall cure a minimum of 28 days in accordance with project specifications.

Mechanical preparation methods such as shot blasting, sandblasting, or hydro-blasting are recommended to produce a clean, lightly textured surface. When hydro-blasting is used, allow 24 hours for the substrate to dry completely before applying the first coat.

**Crack Repair:**

Fill all cracks wider than 1/16 inch with Vulkem® 45SSL prior to applying the resurfacer. Allow crack filler to cure fully per manufacturer instructions before proceeding.

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## 7. MIXING PROCEDURES

Vulkem Sport Acrylic Resurfacer is suitable for use as a filler coating prior to application of color coat. A filler coat is a build coat applied to the prepared substrate to create a uniform base for the subsequent color coat application. Vulkem Sport Acrylic Resurfacer may also be applied as pretreatment over previously repaired areas and to prevent minor depressions. Mix thoroughly. Combine materials at a 4:2:3 ratio of Acrylic Resurfacer: Water: Sand.

For Vulkem Sport Color Coat, mix 2 parts of concentrate with 1 part water, and add 8–11 lbs. of sand per gallon of concentrate. Blend until the mixture is uniform.

Component	Full Drum Mix	Partial Mix
Acrylic Resurfacer	50 gal	25 gal
Water (clean, potable)	25 gal	12.5 gal
Sand (50–70 mesh)*	Approx. 650 lb.	Approx. 325 lb.

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## 8. APPLICATION PROCEDURE

NOTE: Recommended coverage rates are approximate. Sand loading methods and surface profiles may increase material requirements. Refer to mixing instructions for adjustment guidance.

### I. Vulkem Sport Acrylic Resurfacer

- Apply 1–4 coats at a rate of approximately 0.05–0.07 gal/yd<sup>2</sup> of mixed resurfacer per coat. More coats will be required for more damaged courts.
- Apply using a soft rubber squeegee (50-durometer recommended for optimum performance).
- Remove all ridges, scraper marks, and rough areas with a heavy duty scrapper tool before applying each subsequent coat.
- Allow each coat to dry completely before applying the next coat. Typical dry time is approximately 60 minutes (varies with temperature, humidity, wind, and sun/shade exposure).

### II. Vulkem Sport Color Coat

- After the resurfacer layer has fully dried, apply one color filler coat followed by one color finish coat, each at a rate of  $\geq 0.04$  gal/yd<sup>2</sup>.
- Apply using a soft rubber squeegee. Allow each coat to dry completely before applying the next.
- 1-4 coats of each may be required.

### III. Game Lines (Optional)

- Line primer and textured line paint can be applied for athletic court game lines.
- Apply game line markings only after the color finish coat is fully cured.

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## 9. COVERAGE

Coverage rates vary with field conditions. Installers must evaluate the site before ordering materials and account for waste during mixing and application.

Component	Coverage Rate	Notes
Acrylic Resurfacer	0.05–0.07 gal/yd <sup>2</sup>	Yield based on <i>undiluted</i> material; varies with surface texture and porosity.
Color Filler Coat	$\geq 0.04$ gal/yd <sup>2</sup>	Single Coat
Color Finish Coat	$\geq 0.04$ gal/yd <sup>2</sup>	Single Coat

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