



A Division of California Products • An Employee Owned Company
150 Dascomb Road, Andover Massachusetts 01810 USA
Phone: 978-623-9980 / 800-225-1141 • Fax: 978-623-9960
www.plexipave.com • info@plexipave.com

SECTION 10.15

SITE IMPROVEMENTS ATHLETIC FACILITIES

PLEXIBOND-FIBERGLASS SYSTEM

APPLICATION SPECIFICATION FIBERGLASS MEMBRANE WITH THE PLEXIPAVE® SYSTEM

1.0 DESCRIPTION:

This specification covers the application of fiberglass membrane on asphalt surfaces in conjunction with the Plexipave System. This technique is generally successful to renew surfaces that exhibit hairline or stabilized surface cracking. It is not a solution to structural cracking or base failure. This system extends the life expectancy of asphalt surfaces not yet ready for major structural repair.

2.0 MATERIALS:

- 2.1 **Plexipave Court Patch Binder** – shall comply with the Specification 10.14 of California Products Corporation.
- 2.2 **Plexipave Crack Filler** – shall conform to Specification 10.0 of California Products Corporation.
- 2.3 **Fiberglass** – 10 x 20 mesh resin coated fiberglass (asphalt – coated fabric is not acceptable).
- 2.4 **Plexibond Coating** - shall conform to Specification 10.15 of California Products Corporation.
- 2.5 **Acrylic Resurfacer** - shall comply with the Specification 10.8 of California Products Corporation.
- 2.6 **Plexipave Acrylic Filler Coats** - shall conform to Specification 10.5 of California Products Corporation.
- 2.7 **Plexichrome Acrylic Finish Coats** - shall conform to Specification 10.1 of California Products Corporation.
- 2.8 **Plexicolor Line Paint** - shall conform to Specification 10.4 of California Products Corporation.

3.0 CONSTRUCTION:

- 3.1 **Surface Preparation** – The surface to be coated must be sound, smooth and free from dust, dirt and oily material. All mildew is to be removed with a pressure washer and detergent.
- 3.2 **Crack Filling** – All cracks 1/8” or greater in width shall be cleaned out and filled with Plexipave Acrylic Crack Filler. All repaired areas shall be flush with surrounding surface. If not, they shall be ground or rolled as needed to make them flush and even.
- 3.3 **Patching** - Prior to the application of surfacing materials, the entire surface should be flooded and checked for minor depressions or irregularities. Any puddled area covering a nickel shall be marked and repaired with Court Patch Binder using the following mix:

100 lbs. 60-80 mesh silica sand (dry)
3 gallons Plexipave Court Patch Binder
1 to 2 gallons Portland Cement (dry) (depending on humidity and temperature)

A tack coat consisting of 1 part Court Patch Binder and 2 parts water shall be applied to the patch areas and allowed to dry thoroughly prior to patching. For more information see California Products Corporation Specification 10.14 or Plexipatch Specification 10.21.

After patching the surface shall not vary more than 1/8” in ten feet measured in any direction.

4.0 PLEXIBOND AND FIBERGLASS INSTALLATION:

The Plexibond Coating shall be diluted 2 parts Plexibond to 1 part water prior to application. Apply Plexibond Coating using a “wet on wet” method. The fiberglass shall be rolled out into the Plexibond and stretched tightly over the entire surface. Adjacent panels shall be overlapped a minimum of 3”. Wrinkles in the fiberglass membrane shall be corrected prior to application of the Acrylic Resurfacer.

5.0 SURFACE COURSE PREPARATION:

In order to thoroughly mask and embed the fiberglass membrane, a minimum of two coats of California Acrylic Resurfacer shall be placed on the cured fiberglass membrane. The application rate per coat shall be .05-.07 gallons per square yard prior to dilution.

Dilute with water and sand utilizing the following mix:

Acrylic Resurfacer	55 gallons
Sand (60-80 mesh)	600-900 lbs.
Water	20-40 gallons

Note: Additional coats may be necessary to completely hide the texture of the fiberglass membrane. If finer sand is used do not exceed 700 lbs. per mix.

6.0 PLEXIPAVE COLOR BASE AND PLEXICHROME:

- 6.1 Fortified Plexipave shall be applied by rubber-bladed squeegee on the clean, dry surface in 3 applications to obtain a total quantity of not less than .15 nor more than .23 gallons per sq. yd. of area based on the material prior to any dilution. No application until thoroughly cured.

Fortified Plexipave shall be blended utilizing the following mix:

Plexipave Color Base	30 gallons
Plexichrome	20 gallons
Water	20 gallons

The diluted material shall be homogeneous. Segregation before or during application will not be permitted.

The finished surface shall have a uniform appearance and be free from ridges and tool marks.

- 6.2 **Playing Lines** – Four hours minimum after completion of the color resurfacing, 2-inch wide playing lines shall be accurately located, marked and painted with Plexicolor Line Paint as specified by the U.S. Tennis Association.

7.0 WEATHER LIMITATIONS:

No parts of the construction involving the Plexipave System conducted during rainfall, or when rain is imminent. The air temperature must be at least 50°F and rising. Do not apply when surface temperature is above 140°F.