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## SECTION 10.23

EXTERIOR/INTERIOR

SITE IMPROVEMENTS  
ATHLETIC FACILITIES

# PLEXICUSHION INSTALLATION FOR ASPHALT SURFACES

## 1.0 DESCRIPTION:

The Plexicushion System combines the unique resilience and shock-absorbing properties of the EPDM Rubber with the uniform play characteristics of the Plexipave Surfacing System. The Plexicushion System is designed for new or existing asphalt surfaces that have a sound, well-drained base of adequate thickness and stability. Plexicushion will not resolve cracking or structural problems of the asphalt surface.

The success of the all-weather characteristics of surfacing or resurfacing is dependent on a sound base (with good drainage) and asphalt concrete meeting the requirements of The National Asphalt Pavement Association Guidelines for Recreations Pavements. Surface variation should not exceed 1/8 inch in 10 feet. The asphalt surface should have a slope of 1" in 10 feet in one plane.

## 2.0 MATERIALS:

2.1 **Court Patch Binder** – shall comply with Specification 10.14 of California Products Corporation or Plexipatch Specification 10.21.

2.2 **Acrylic Resurfacer** – shall comply with Specification 10.8 of California Products Corporation.

2.3 **Plexicushion Base Coat** – shall comply with Specification 10.9 of California Products Corporation.

2.4 **Plexicushion** – shall comply with Specification 10.3 of California Products Corporation.

2.5 **Fortified Plexipave** – shall conform to Specification 10.12 of California Products Corporation.

2.6 **Plexichrome** – shall conform to Specification 10.1 of California Products Corporation.

2.7 **Plexicolor Line Paint** – shall conform to Specification 10.4 of California Products Corporation.

2.8 **Water** – shall be fresh and potable.

## 3.0 RECOMMENDED SYSTEMS:

### Plexicushion Club

4 coats Plexicushion  
Plexipave Color System

### Plexicushion Tournament

2 coats Plexicushion Base Coat  
3 coats Plexicushion  
Plexipave Color System

### Plexicushion Prestige

3 coats Plexicushion Base Coat  
3 coats Plexicushion  
Plexipave Color System

Note: Other combinations of Plexicushion and Plexicushion Base Coat are possible. Consult California Products for specifics.

#### **4.0 Construction:**

New asphalt surfaces shall be allowed to cure a minimum of 14 days before application of the Plexicushion System. The cure rate is affected by temperature. The lower the temperature the slower the rate of cure.

- 4.1 **Surface Preparation** – The surface to be coated must be sound, smooth, and free from dust, dirt, or oily materials. Prior to the application of surfacing materials, the entire surface should be checked for minor depressions and irregularities by flooding the court and marking any puddles areas covering a nickel. After the courts have dried, depressions and irregularities shall be filled with Court Patch Binder according to Specification Section 10.14 using the following mix:

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

Note: A tack coat of 1 part Court Patch binder to 2 parts water shall be applied to the patches and allowed to thoroughly dry prior to patching.

Plexipatch may also be used. (See Specification 10.21)

After patching, the surface shall not vary more than 1/8" in ten feet measure in any direction.

- 4.2 **Surface Course Preparation** – In order to provide a smooth, dense underlayment for the Plexicushion, one application of California Acrylic Resurfacer shall be applied to the surface at a rate of (.07-.05 gallons per square yard 15-20 sq. yds. per gallon). No application shall be covered by a succeeding application until thoroughly cured. Dilution with water and sand is required utilizing the following mix:

Acrylic Resurfacer – 55 gallons  
Water – 20-40 gallons  
Sand (60-80 mesh) – 600-900 lbs.  
Liquid Yield – 112-138 gallons

#### **5.0 PLEXICUSHION BASE COAT APPLICATION:**

After the Acrylic Resurfacer application has thoroughly dried, application of the Plexicushion Base Coat may begin.

- 5.1 Plexicushion Base Coat shall be applied in 2-3 (select desired system from Section 3.0) applications at an average rate of 0.22 gallons per square yard per coat.
- 5.2 Plexicushion Base Coat shall be applied with a 24" or 36" 50-durometer rubber squeegee. Plexicushion Base Coat must be thoroughly mixed prior to application. Plexicushion Base Coat may be diluted 4 parts Base Coat to 1 part water.

- 5.3 Extreme care should be taken that ridges are not allowed to form between passes of the squeegee. Any ridges that do form must be rubbed out prior to the application of the Plexicushion.

## **6.0 PLEXICUSHION APPLICATION:**

After the Base Coat application has thoroughly dried, application of the Plexicushion may begin.

- 6.1 Plexicushion shall be applied with a 24" or 36" 50-durometer rubber squeegee. Plexicushion may be diluted with water at a rate of 4 parts Plexicushion to 1 part water.
- 6.2 Apply 3-4 coats of Plexicushion at a rate of .10 to .11 gallons per square yard per coat. For the first application over Plexicushion Base Coat, Plexicushion shall be applied at a rate of .16 gallons per square yard. Subsequent application shall be applied at a rate of .10 to .11 gallons per square yard per coat. (No fewer than 3 applications are acceptable over the Plexicushion Base Coat System).
- 6.3 Extreme care should be taken that ridges are not allowed to form between passes of the squeegee. Any ridges that do from must be rubbed out prior to the application of the Plexipave Color Finish System.

## **7.0 FORTIFIED PLEXIPAVE – APPLICATION**

- 7.1 Allow the last coat of Plexicushion to thoroughly dry for at least 6 hours in good weather conditions. The fortified Plexipave Surface System shall be applied according to California Products Corporation's Specification 10.12. Fortified Plexipave is a job mixed using the following mixture:

Plexipave Color Base	30 gallons
Plexichrome	20 gallons
Water	20 gallons

- A minimum of 3 applications of Fortified Plexipave shall be applied at the rate of .06 gallon per square yard per coat. If a faster surface is desired a final finish of Plexichrome may be applied at the rate of .04 gallon per square yard.
- 7.2 The first coat of Fortified Plexipave shall be sanded after the application has thoroughly dried and prior to subsequent coats to insure long term surface uniformity.
- 7.3 All line markings shall be applied with Textured Plexicolor Line Paint.

## **8.0 PRECAUTIONS**

- 8.1 Do not allow Plexicushion to drop on adjacent areas.
- 8.2 Do not apply Plexicushion on existing outdoor concrete surfaces unless there is clear evidence that a proper vapor barrier is in place.
- 8.3 Temperature must be 60F (15C) and rising to allow proper curing of the Plexicushion System. Do not apply if surface temperature is in excess of 140F (60C).
- 8.4 Shady areas will take longer to cure.
- 8.5 Indoor applications require good ventilation for proper installation.

## **9.0 GENERAL**

- 9.1 Upon completion, the contractor shall remove all containers, surplus materials and debris and leave the site in a clean and orderly condition, acceptable to the owner. Gates shall be secured and all containers shall be disposed of in accordance with state, local, and federal regulations.
  
- 9.2 Materials specified for the Color System shall be delivered to the site in sealed, properly labeled containers with California Products Corporation labels and stenciled with the proper batch code numbers. Products packaged or labeled in any other manner will not be accepted. Mixing with clean fresh water shall only be done at the job site. Coverage rates are based upon materials prior to mixing with water as directed.