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SECTION 10.19

EXTERIOR/INTERIOR

SITE IMPROVEMENTS
ATHLETIC FACILITIES

APPLICATION SPECIFICATIONS CONCRETE SURFACES

1.0 DESCRIPTION

This specification covers the application of a new wearing surface for Plexipave Tennis Courts and/or new or existing concrete tennis courts that have a sound, well-drained base of adequate thickness and stability. Surfaces should be properly sloped for good drainage, and free from cracks. The process consists of the repair of any minor depressions and cracks, followed by applications of the Plexipave System.

NOTE: The success of all-weather characteristics of coating is dependent on a sound base with good drainage, the concrete surface being prepared in accordance to Specification 10.0 of California Products Corporation and the U.S. Tennis Court & Track Builders Association. Care should be taken to provide adequate surface water drainage and an appropriate vapor barrier below the concrete slab. Surface variation should not exceed 1/8 inch in 10 ft. when measured in any direction with a straight edge and slope 1 inch in 10 ft., all in one plane.

2.0 MATERIALS

- 2.1 Concrete Preparer – shall comply with Specification 10.13 of California Products Corporation.
- 2.2 California Ti-Coat – shall conform with Specification 10.17 of California Products Corporation.
- 2.3 Plexipave Court Patch Binder – shall comply with Specification 10.14 of California Products Corporation
- 2.4 Acrylic Resurfacer – shall comply with Specification 10.8 of California Products Corporation.
- 2.5 Plexipave Color Base – shall conform to Specification 10.5 of California Products Corporation.
- 2.6 Plexichrome – shall conform to Specification 10.1 of California Products Corporation.
- 2.7 Plexicolor Textured Line Paint – shall conform to Specification 10.4 of California Products Corporation.
- 2.8 Water – The water used in all mixtures shall be fresh potable.

3.0 CONSTRUCTION – Concrete (new constructions)

- 3.1 **Surface Preparation** – Concrete shall have a wood float or medium broom finish. DO NOT PROVIDE STEEL – TROWEL FINISH. DO NOT ALLOW ANY CURING AGENTS OR HARDENERS TO BE USED. Concrete must cure for a minimum of 28 days. Thoroughly remove all dirt, dust, mud, oil, and all foreign matter. Flood the surface, locate and mark all depressions greater than the thickness of a nickel.

3.2 **Concrete Preparer** – Concrete surface must be etched with Concrete Preparer solution. After drying, all latent material must be removed from the surface.

3.3 **Depressions** – After the surface has dried, fill marked depressions with Court Patch Binder according to specifications using the following mix:

100lbs. 60-80 mesh silica sand (dry)
3 gallons Plexipave Court Patch Binder
1 or 2 gallons Portland Cement, Type 1 (20lbs. min.)

Tack Coat – A tack coat is necessary under patches only and shall be mixed as follows:

Plexipave Court Patch Binder diluted 1 part Court Patch Binder to 2 parts water and allowed to thoroughly dry prior to patching. After patching the surface shall not vary more than 1/8” in ten feet measured in any direction.

3.4 **Primer Coat** – Mix and apply California Ti-Coat epoxy primer according to Specification 10.17. Use only on uncoated surfaces.

NOTE: Plexibond may be used as an alternate for priming concrete courts. Consult manufacturer before mixing.

3.5 **Acrylic Filler Coat** – A coat of Acrylic Resurfacer shall be applied within 1 to 3 hours of the application of Ti – Coat while still tacky to fingertip touch.

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

4.0 PLEXIPAVE COLOR BASE AND PLEXICHROME

4.1 Plexipave Acrylic textured coats shall be applied on the clean, dry underlying 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 dilution. No application shall be covered by a succeeding application until thoroughly dried.

Dilution with Plexichrome and water to obtain proper application consistency will be as follows:

Plexipave Color Base – 30 gallons
Plexichrome – 20 gallons
Water – 20 gallons

(NOTE: Other mix ratios may be used after consulting the manufacturer.)

The diluted material shall be homogeneous. Segregation before or during application will not be permitted. The finished surface shall have a uniform appearance and shall be free from ridges and tool marks.

5.0 PLAYING LINES

- 5.1 Four hours minimum after completion of the color coating, 2-inch wide, textured playing lines shall be accurately located, marked and painted with textured Plexicolor Line Paint as specified by the U.S. Tennis Association.

6.0 Limitations

- 6.1 No parts of the construction involving Plexipave System shall be conducted during rainfall or when rain is imminent. The air temperature must be at least 50 1/2F and rising. Do not apply when surface temperature is in excess of 140 1/2F. The Plexipave System will not prevent surface or structural crack from reoccurring.