San Marcos Unified School District
San Marcos High School
1615 W. San Marcos Blvd
Tennis Court Resurfacing
8 - Courts

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Concrete tennis court surface color coating system.

1.2 REFERENCE STANDARDS

A. American Sports Builders Association (ASBA).

1.3 SUBMITTALS

A. Comply with Section 01330 (01 33 00) – Submittal Procedures.

B. Product Data: Submit manufacturer's product data, including surface and crack preparation and application instructions.

C. Samples: Submit manufacturer's color samples of color coating.

D. Test Reports:
1. Submit independent test results for solar reflectance index.
2. Submit independent test results for 2000 Hour ASTM G154, accelerated weathering UV test, to demonstrate long-term durability and fade resistance.
3. Submit independent test results for 2000 Hour, accelerated weathering ASTM G155 Xenon Arc test, to demonstrate long-term fade resistance and quality of pigment.

E. Manufacturer's Certification: Submit manufacturer's certification that materials comply with specified requirements and are suitable for intended application.

F. Manufacturer's Project References: Submit manufacturer's list of successfully completed concrete tennis court surface color coating system projects, including project name, location, and date of application.

G. Applicator's Project References: Submit applicator's list of successfully completed concrete tennis court surface color coating system projects, including project name, location, type and quantity of color coating system applied, and date of application.

H. Warranty Documentation: Submit manufacturer's standard warranty.

I. Authorized Installer Certificate: Submit manufacturer's authorized installer certificate.

1.4 QUALITY ASSURANCE

A. Manufacturer's Qualifications:
   1. Manufacturer regularly engaged, for past 5 years, in manufacture of concrete tennis court surface color coating systems of similar type to that specified.
   2. United States owned company.
   3. Member: ASBA.
   4. Manufacturer has surfaces that are classified by the ITF's (International Tennis Federation) pace classification program.

B. Applicator's Qualifications:
   1. Applicator regularly engaged, for past 3 years, in application of tennis court surface color coating systems of similar type to that specified.
   2. Employ persons trained for application of tennis court surface color coating systems.
   3. Applicator must be authorized installer of the surfacing brand used.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Delivery and Acceptance Requirements: Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.

B. Storage and Handling Requirements:
   1. Store and handle materials in accordance with manufacturer's instructions.
   2. Keep materials in manufacturer's original, unopened containers and packaging until application.
   3. Store materials in clean, dry area indoors.
   4. Store materials out of direct sunlight.
   5. Keep materials from freezing.
   6. Protect materials during storage, handling, and application to prevent contamination or damage.
   7. Close containers when not in use.
   8. Retain manufacturer batch codes on each container and application dates, for warranty purposes.

1.6 AMBIENT CONDITIONS

A. Do not apply concrete tennis court surface color coating system when air or surface temperatures are below 50°F (10°C) during application or within 24 hours after application.

B. Do not apply concrete tennis court surface color coating system when rain is expected during application or within 24 hours after application.

PART 2 PRODUCTS

2.1 MANUFACTURER

A. SportMaster Sport Surfaces, PO Box 2277, 2520 South Campbell Street, Sandusky, Ohio 44870. Toll Free 800-326-1994. Fax 877-825-9226. Website www.sportmaster.net. E-mail moreinfo@sportmaster.net.

All other brands must be pre-approved by the architect/owner, 7 days prior to the bid date. If submitting another brand, bidder must furnish copies of all submittal documents under section 1.4

2.2 MATERIALS

A. Concrete Tennis Court Surface Color Coating System: SportMaster Color Coating System.

B. Crack Sealant: SportMaster “Crack Magic”.
1. 100 percent acrylic emulsion elastomeric crack sealant.
2. Seals cracks and expansion joints up to 1/2 inch wide in concrete pavement.
3. Weight per Gallon at 77 Degrees F: 8.8 lbs., plus or minus 0.5 lbs.
4. Non-Volatile Material: 61 percent, plus or minus 5 percent.
5. Color: [Green] [Neutral] [Red].

C. Crack Filler: SportMaster “Acrylic Crack Patch”.
1. 100 percent acrylic emulsion trowel-grade crack filler.
2. Fills cracks in concrete pavement up to 1 inch wide.
3. Chemical Characteristics, by Weight, Minimum:
    a. Acrylic Emulsion: 10.0 percent.
    b. Hiding Pigment: 0.2 percent.
    c. Mineral Inert Fillers: 78.0 percent.
    d. Film Formers, Additives: 1.8 percent.
    e. Water: 8.5 percent.
4. Weight per Gallon at 77 Degrees F: 15.2 lbs., plus or minus 1.0 lbs.
5. Non-Volatile Material: 80 percent, plus or minus 5 percent.
6. Color: [Green] [Neutral] [Red] [Blue].

D. Patch Binder: SportMaster “Acrylic Patch Binder”.
1. 100 percent acrylic emulsion liquid binder.
2. Mix on-site with sand and cement.
3. Levels and repairs low spots and depressions up to 3/4 inch deep in concrete pavement.
4. Fills Cracks in concrete up to 1” in width.
5. Weight per Gallon at 77 Degrees F: 8.8 lbs., plus or minus 0.5 lbs.

E. Adhesion Promoter: SportMaster “Acrylic Adhesion Promoter”.
1. Acrylic emulsion primer.
2. Primes concrete surface and promotes adhesion of color coating system materials.
3. Weight per Gallon at 77 Degrees F: 8.7 lbs., plus or minus 0.5 lbs.

F. Filler Course: SportMaster “Acrylic Resurfacer”.
1. 100 percent acrylic emulsion resurfacer.
2. Mix on-site with silica sand.
3. Apply to adhesion promoter or previously colored acrylic surfaces in preparation of color coating system.

4. Chemical Characteristics, by Weight, Minimum:
    a. Acrylic Emulsion: 44.0 percent.
    b. Hiding Pigment: 2.0 percent.
    c. Mineral Inert Fillers: 5.0 percent.
    d. Film Formers, Additives: 0.2 percent.
    e. Water: 45.0 percent.
5. Weight per Gallon at 77 Degrees F: 8.5 lbs., plus or minus 0.5 lbs.
6. Non-Volatile Material: 27.5 percent, plus or minus 5.0 percent.
7. Color: [Black]

G. Color Coating: SportMaster “ColorPlus System”.
1. 100 percent acrylic emulsion coating.
2. Mix on-site with silica sand and water.
3. Color coats tennis and multipurpose courts.
4. Weight per Gallon at 77 Degrees F: 9.2 lbs., plus or minus 0.5 lbs.

5. Color: To match existing, final color to be approved by District

H. Line Markings Primer: SportMaster “Stripe-Rite”.
1. 100 percent acrylic emulsion primer, clear drying.
2. Primes line markings and prevents bleed-under for sharp lines.
3. Chemical Characteristics, by Weight, Nominal:
    a. Acrylic Emulsion: 38.0 percent.
    b. Hiding Pigment: 0.0 percent.
    c. Mineral Inert Fillers: 7.0 percent.
    d. Film Formers, Additives: 1.5 percent.
    e. Water: 50.0 percent.
4. Weight per Gallon at 77 Degrees F: 8.9 lbs., plus or minus 0.5 lbs.
5. Non-Volatile Material: 29 percent, plus or minus 5 percent.

I. Line Paint: SportMaster “Textured Line Paint”.
1. Pigmented, 100 percent acrylic emulsion line paint.
2. Line marking on concrete tennis courts.
3. Chemical Characteristics, by Weight, Nominal:
    a. Acrylic Emulsion: 25.89 percent.
    b. Pigment: 14.90 percent.
    c. Mineral Inert Fillers: 13.12 percent.
    d. Additives: 4.73 percent.
    e. Water: 41.36 percent.
4. Weight per Gallon at 77 Degrees F: 10.65 lbs., plus or minus 0.75 lbs.
5. Non-Volatile Material: 45.17 percent, plus or minus 5 percent.

6. Color: White.

PART 3 EXECUTION

3.1 EXAMINATION

A. Examine concrete tennis court surfaces to receive color coating system.

B. Verify:
   1. Suitable vapor barrier beneath concrete slab.
   2. Perimeter drainage to prevent moisture accumulation beneath the concrete surface.
   3. Curing compounds have not been used on concrete surfaces.
   4. Concrete tennis courts meet ASBA construction requirements.

C. Notify the District of conditions that would adversely affect application or subsequent use.

D. Do not begin surface preparation or application until unacceptable conditions are corrected.

3.2 SURFACE PREPARATION

A. Protection of In-Place Conditions: Protect adjacent surfaces and landscaping from contact with concrete tennis court surface color coating system.

B. Prepare surfaces in accordance with manufacturer's instructions.

C. Existing Concrete:
   1. Sandblast, shot blast, or scarify smooth concrete surfaces to roughened texture similar to medium broom finish. If shot blasting, a shot blast profile of CSP3 or CSP4 is recommended.

D. Remove dirt, dust, debris, oil, grease, sealers, curing compounds, vegetation, loose coatings, loose materials, and other surface contaminants which could adversely affect application of concrete tennis court surface color coating system. Pressure wash entire surface.

E. Repair cracks, depressions, and surface defects in accordance with manufacturer's instructions before application of color coating.

F. Repair spalled areas and level depressions 1/8 inch and deeper with patch binder in accordance with manufacturer's instructions.

G. Apply adhesion promoter over the entire concrete surface in accordance with manufacturer's instructions.

H. Apply 1 coat of filler course to provide smooth underlayment for application of color coating.

I. Ensure surface repairs are flush and smooth to adjoining surfaces.

3.3 APPLICATION

A. Apply concrete tennis court surface color coating system in accordance with manufacturer's instructions at locations indicated on the Drawings.

B. Mix materials in accordance with manufacturer's instructions.

C. Apply Filler Course and Color Coating with a 50-60 durometer, soft rubber squeegee.

D. Filler Course:

1. Apply 2 coats on existing acrylic surfaces with extensive cracks or low spot repair.

E. Apply a minimum of 2 coats of color coating to prepared surfaces in accordance with manufacturer’s instructions.

F. Allow material drying times in accordance with manufacturer’s instructions before applying other materials or opening completed surface to foot traffic.

3.4 LINE MARKINGS

A. Lay out tennis court line markings in accordance with ASBA specs Rules of Tennis.

B. Apply line markings primer, after masking tape has been laid, to seal voids between masking tape and tennis court surface to prevent bleed-under when line paint is applied.

C. Apply a minimum of 1 coat of line paint in accordance with the manufacturer's instructions.

3.5 PROTECTION

A. Allow a minimum of 24 hours curing time before opening tennis courts for play.

B. Protect applied concrete tennis court surface color coating system to ensure that, except for normal weathering, the coating system will be without damage or deterioration at time of Substantial Completion.

END OF SECTION