**PERIMETER ANCHORED, CUSHIONED MAT SYSTEM WITH TEXTURE**

 **ACRYLIC FINISH SURFACING**

PART 1 GENERAL

* 1. GENERAL DESCRIPTION
1. Stabilized Polyurethane Foam mat system with a textured Acrylic Surfacing finish
	1. RELATED SECTIONS
2. Related Work
3. Asphalt concrete pavement (sec\_\_\_\_\_\_\_)
4. Poured Concrete Base (sec\_\_\_\_\_\_\_\_)
5. Athletic Equipment (sec\_\_\_\_\_\_\_\_\_)
6. Drainage (sec\_\_\_\_\_\_\_\_\_)
7. References
8. National Asphalt Paving Association (NAPA)
9. American Concrete Institute (ACI)
10. United States Tennis Association (USTA)
11. International Tennis Federation (ITF)
12. American Sports Builders Association (ASBA)
	1. QUALITY ASSURANCE
13. All surface coating products shall be supplied by a single manufacturer
14. The contractor shall provide the inspector, upon request an estimate of the volume to be used on site
15. The contractor shall record the batch number of each product used on the site and retain it through the warranty period
16. The installer shall be an Authorized Applicator of the surfacing system
17. The manufacturer’s representative shall be available to help solve material questions
	1. SUBMITTALS
18. Manufacturer specifications for components, color chart and installation guidelines
19. Authorized Applicator certificate from the surface system manufacturer
20. Current Material Safety Data Sheets (SDS)
21. Product substitution: If other than the product specified, the contractor shall submit, at least 7 days prior to bid date, a complete written list of proposed substitutions with sufficient data, drawings, samples and literature to demonstrate, to the Owners satisfaction, that the proposed substitution is of equal quality. This will pertain to the make-up of the proposed mat system as well as the finish color system. Under no circumstances will systems from multiple manufacturers be considered.
	1. MATERIAL HANDLING AND STORAGE
22. Store materials in accordance with manufacturers specifications and SDS sheets.
23. Deliver product to the site in original unopened containers with proper labeling
24. All surfacing materials shall be nonflammable
	1. WARRANTY

1. The Premier System carries a tiered 25-year warranty on the polyurethane foam mat. The warranty stipulates that the system must be inspected, repaired and resurfaced every 5-7 years, by an authorized installer. Should the Owner fail to comply with the resurfacing program the warranty will become null and void and the manufacturer and applicator will not be responsible for any future degradation.
	1. MANUFACTURER QUALIFICATIONS
2. System manufacturer shall be a US owned and based company
3. System manufacturer shall be a member of the American Sports Builders Association (ASBA)
4. Finish color surface shall achieve an ITF Pace rating chosen by the Owner

PART 2 PRODUCTS

2.1 MANUFACTURERS

1. California Sports Surfaces, a division of the ICP Group, Andover, MA 01810, [www.californiasportssurfaces.com](http://www.californiasportssurfaces.com)
2. Product substitution: If other than the product specified, the contractor shall submit, at least 7 days prior to bid date, a complete written list of proposed substitutions with sufficient data, drawings, samples and literature to demonstrate, to the Owners satisfaction, that the proposed substitution is of equal quality. This will pertain to the make-up of the proposed mat system as well as the finish color system. Under no circumstances will systems from multiple manufacturers be considered.

2.2 MATERIALS

1. California Court Patch Binder- for use in patching cracks, holes, depressions and other surface imperfections, as necessary
2. California Crack Filler- for use in filling fine, narrow cracks, as necessary
3. Premier Court Resilient Court Surface- 100% open celled polyurethane foam
4. Rolls to be 60’ x 6’ +/- in length
5. Rolls to be delivered to jobsite properly wrapped
6. Premier Court Mylar- polyethylene sheet good
7. Rolls to be 180’ x 5”
8. Premier Court Seam Fabric- a reinforced polyester fabric
9. Rolls to be 180’ x 4”
10. Premier Court Perimeter Fabric- a reinforced polyester fabric
11. Rolls to be 180’ x 6”
12. Premier Court Seam Adhesive- proprietary formulated adhesive
13. Used to anchor the Premier Court Seam and Perimeter Fabric
14. Produces a monolithic surface over the existing court surface
15. Premier Court Seam Cover Fabric- 100% resin coated, woven fiberglass mesh
16. Rolls to be 150’ x 9”
17. California Acrylic Resurfacer (flexible)- surface primer applied prior to finish color surface
18. Acrylic filler coat that is blended with specifically gradated silica
19. California Sports Surfacing System- textured, acrylic color system
20. Fortified Plexipave- for use as the textured finish color surface
21. Or DecoColor- for use as the textured finish color surface
22. Or Premier Coating- for use as the textured finish color surface
23. California Textured White Line Paint- for use as the line marking paint for court/play surface.

PART 3 EXECUTION

3.1 WEATHER LIMITATIONS

1. When applying the Premier Mat System the surface temperature must be a minimum of 140 degrees Fahrenheit on the Premier Court Mat as measured by an Oakton Infra-Pro infrared thermometer, or equal for at least an hour in direct sunlight.
2. When applying the acrylic coating system, the surface temperature must be 50 degrees and rising
3. When applying the acrylic coating system surface temperature should not exceed 140 degrees

3.2 BASE PREPARATION

1. Scrape the existing surface of all ridges and loose dirt and debris
2. Using air blowers and scrapers remove all loose material
3. Power wash the court of any excess or ground in dirt
4. Any and all cracks must cleaned, leveled and filled with the appropriate material; Court Patch Binder or Crack filler depending on size of crack.
5. All low areas that will hold water to submerge a US nickel shall be leveled with Court Patch Binder
6. For Concrete Court applications: after the surface has been prepped, leveled and cleaned, apply a minimum of two squeegee applications or one spray application of the approved Concrete Sealer. The sealer must be allowed to cure for a minimum 24 hours before proceeding.

3.3 PREMIER MAT INSTALLATION

1. Staging the wrapped rolls onto the court
2. Single courts the rolls will be placed parallel to the net
3. Multiple courts the roll will lay perpendicular with the net
4. Unrolling and Marking the rolls
5. Remove plastic and unroll the number of panels that are intended to be installed that day
6. Lay panels side by side and do not overlap. Panels must be completely flat before proceeding
7. Mark the courts in preparation of the double cutting
8. Double Cutting and Trimming Joints
9. Prior to cutting it is imperative that surface temperature is at least 140 degrees with no signs of clouds or rain
10. Overlap the panels to the marked areas
11. Using a double-cutter, cut along the marked panel and remove any and all waste.
12. Allow the panels to relax with a slight separation between panels
13. Position Mylar and Final Position the Panels
14. Using a Mylar tool, position a strip of Mylar beneath each joint of the panels to be seamed
15. Starting at the center panel abut the joints so there is no gap and continue this process moving outward from the center panel
16. Seaming the Premier Court
17. Surface temperature must be 140 degrees
18. Pour a 3” wide bead of Premier Court Seam Adhesive along the Mylar
19. Spread the bead to a 5” wide pattern
20. While still wet, position the seam fabric onto the adhesive and press into the adhesive using a brush
21. Pour a bead of adhesive over the fabric and using the brush encapsulate the fabric
22. The court roll and the seam fabric should be fully coated with the adhesive at the seam
23. Cutting and Seaming the Perimeter
24. Mark the outside edge of the rolls to be cut with a chalk line
25. Allow enough room for the Perimeter Fabric to lay flush outside of the court approximately 6”
26. Cut along chalk line and dispose of remnants
27. Apply the Premier Court Adhesive along the outer perimeter and lay the Perimeter Fabric positioned half under the Mat and half on the outer portion of the court
28. Embed the Premier Mat onto the Perimeter Fabric and the Premier Adhesive anchoring the Mat system to the court
29. Initial Acrylic Resurfacer Application
30. Before proceeding all seam adhesive must be fully cured
31. Clean the entire court of a loose dirt and debris
32. Apply to the entire prepared mat system a coat of California Acrylic Resurfacer mixed in accordance with the manufacturers specification and allow to thoroughly dry
33. At each seam apply a windrow of Acrylic Resurfacer along the seam and using a squeegee spread the bead to an 11” width
34. Apply the Premier Seam Cover Fabric into the wet Acrylic Resurfacer and the apply an additional bead onto the Seam Fabric creating a wet on wet encapsulation.
35. Coating the Seams
36. Make sure that the Seam Fabric encapsulation has fully dried and cured
37. Apply a bead of Acrylic Resurfacer approximately 4” wide over the Seam Fabric and, with a squeegee, spread to a 12” wide over the seam and allow to cure
38. Apply an additional application of Acrylic Resurfacer using the same method and extending just beyond the previous application.
39. Once the seam applications have fully cured, apply an additional coat of Acrylic Resurfacer over the entire court and allow to fully cure.

3.4 TEXTURED COLOR SURFACE

1. After the Acrylic Resurfacer has fully cured, all areas to receive the color system shall be clean of all loose dirt and debris.
2. Mix the chosen California Sports Surfaces color system according to the manufacturers recommendations. Mixing shall be done with a mechanical mixer to achieve a smooth, homogeneous consistency.
3. All applications of the color system are to be applied using a 50 Durometer rubber faced squeegee. The material shall be poured onto the court and spread uniformly
4. A total of 3 applications of the textured material shall be applied evenly at a rate of no less than .15 gal./sy.
5. No application will be made until the previous coat has fully cured

3.5 LINE PAINTING

1. All lines and markings will be applied with California Line Paint
2. Line shall be 2” wide unless otherwise specified
3. Line shall be laid out in accordance with USTA and ASBA guidelines
4. Application shall be made by brush or roller at a rate of 150-200 sf/gal

3.6 PROTECTION

1. Erect temporary barriers to protect materials during installation and coatings during drying and curing
2. Lock gates to prevent use until acceptance by Owner’s representative

3.7 CLEAN UP

1. Remove all containers, surplus materials and debris
2. Dispose of materials in accordance with local, state and federal regulations
3. Leave site in a clean and orderly condition
4. Allow 26-48 hours before use to allow for a proper cure time of the coatings