

# **PRODUCT SPECIFICATIONS FOR (13MM) LATEX MAT SYSTEM WITH ACRYLIC STRUCTURAL SPRAY**

## **PART 1 – Scope of work**

### **1.01 Work Included**

This work includes furnishing and installing a synthetic all-weather running track surface.

### **1.02 Description of System and General Conditions**

Synthetic track shall be defined as 13 mm thick latex mat with an acrylic Structural Spray system. This specification is for a mixture of uniform graded SBR rubber granules bound with fortified latex binders. The rubber granules are to be control gradation containing minimum dust (less than 4%). Only premium rubber shall be used. System shall be installed using the rake and spray method. The result will be a durable, resilient, all weather track surface.

The latex track surface is designed for use as a durable, resilient surface which may be placed over asphalt running tracks and all field events. (All concrete runways and field events may require an epoxy primer prior to application of surfacing.) It may also be used for resurfacing existing all-weather tracks, including rubberized asphalt providing the existing surface has good structural integrity and planarity.

### **.03 Codes and Standards**

A. Codes and Standards follow the current guidelines set forth by the National Federation of State High school Association (NFSHSA), the National Collegiate Athletic Association (NCAA) and the International Association of Athletics Federation (IAAF). The NFSHSA rules shall be enforced where differences between the three associations are noted.

### **.04 Contractors Pre-Qualification Requirements**

- A. Contractor must have been in business for a minimum of (5) years, must have experience with similar projects, and must provide owner with list of at least (5) similar jobs completed within the last 5 years.
- B. Contractor must be a member in good standing with the “American Sports Builders Association” (United States Tennis Court and Track Builders Association). This is to ensure that the contractor has met the requirements set forth to be able to perform this specialty work.
- C. Contractor should be licensed in the state of which the work is to be performed and entitled to practice the following classifications: “Tennis courts and running track facilities”.

### **.05 Contractors Responsibility / Submittals**

- A. Furnishing all labor, materials, and equipment to fully execute job.
- B. Furnish and maintain temporary flagging and barricades as required to protect employees and public at all times. This includes daily clean-up of trash and debris
- C. Submit manufactures product data sheets including installation guidelines and maintenance instructions.
- D. The Synthetic surfacing material manufacturer shall submit a letter stating that the surfacing contractor is qualified to install its synthetic surface system.
- E. Submit (3) representative track samples in the color of the surfacing to be installed.
- F. Submit documentation that verifies that the synthetic surfacing material does not contain any toxic or hazardous substances, which exceeds limits set forth by the EPA.
- G. Contractor must carry proper insurance. (A 30 day cancellation notification shall apply to all Policies).

**1.06 Insurance Requirements**

- a) *Commercial General Liability***
  - General Aggregate \$2,000,000
  - Personal Injury \$1,000,000 per occurrence
  - Each occurrence \$1,000,000
- b) *Commercial Business Automobile Liability***
  - Combined Single Limit of \$500,000 per occurrence
- c) *Workers' Compensation***
  - Bodily Injury by Accident \$1,000,000 per accident
  - Bodily Injury by Disease \$1,000,000 per accident
- d) *General Liability Umbrella***
  - Liability \$1,000.00

**.07 Warranty**

Provide a (3) year warranty against faulty workmanship and materials for the synthetic surface. The warranty period shall commence at final completion of the surface.

**.08 Approved Manufacturer/Installer**

Quality Court Industries, LLC  
5661 Brownfields Dr.  
Baton Rouge, LA 70811  
225-774-9974 – Phone  
225-774-9984 – fax  
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**PART 2-PRODUCTS AND MATERIALS**

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.02

## **Materials**

**Latex primer** – All latex primer shall be Premium SBR Latex Emulsion. Latex primer must be compatible with the Latex binder.

**Latex binder** – All latex binder shall be Premium SBR Latex Emulsion. Binder must meet the following Physical Properties:

- Emulsifiers – Anionic
- Bound Styrene – 65%
- Viscosity – 200 CPS
- PH – 9.0
- Solids Content – 50%
- Particle Diameter – 15-17 Microns
- Residual Monomer – 0.07% Max

**Plexitrac Surfacer** – fully pigmented, acrylic top coat system designed for high ultraviolet light environments. It is made from acrylic resins and fully encapsulated EPDM rubber granules.

**Premium Black rubber** – All rubber granules shall be of a high quality industrial grade. The rubber granules shall be control gradation (1-3.5mm) containing minimum dust, less than 4% by weight. Use only premium recycled rubber.

## **PART 3- INSTALLATION PROCEDURE**

### **.01 Base Requirements**

The layout, structural integrity, drainage and planarity are to be checked by owner or architect prior to the commencement of the surfacing work. For general specification for the construction of a track, refer to the American Sports Builders Association (United States Tennis Court and Track Builders Association).

Before application of the surface course, the asphalt base should be tested for planarity using a 10' straight edge. There shall be no deviation from the specified grade in either the stone or the asphalt in excess of 1/8 " in any direction. The lateral slope from outside to inside is to be 1% (a maximum of 2% is allowed for High School standards), and a maximum slope of 0.1% in any running direction. Asphalt base shall be allowed to cure a minimum of fourteen (14-21) days prior to commencement of surfacing.

### **.02 Preparation**

**Scheduling** – The track shall be installed after the subsurface has been properly prepped and cured. The temperature should be 40 degrees and rising during installation of surface.

**Sub-base** – The General Contractor or Asphalt Paving contractor shall provide documentation that the paving meets those requirements set forth for asphalt paving. Additionally, the asphalt is to cure for a minimum of 14-21 days prior to synthetic surfacing being applied. Asphalt compaction tests are to be provided showing a compaction of 95% or greater.

The asphalt will be checked with a 10 foot straight edge in all directions. Those areas not in conformance will be repaired and / or replaced by the Asphalt Paving Contractor. Flooding the asphalt surface to located irregularities is highly recommended.

**Cleaning** – The entire subsurface shall be clean, dry and free from any foreign and loose material such as dirt, oil, grease, etc.

### **.03**

#### **Installation**

- a) **Prime** - After the asphalt base has cured for a minimum of 14-21 days (concrete base shall cure a minimum of 30 days), or as required by the owner, a prime coat consisting of Premium Latex Track Binder (mixed 1 part water to 1 part binder) shall be applied at a minimum rate of 0.10 gallons per square yard. All latex application shall be applied by method of pump and compressor spray machines capable of spraying 0.5- 1.5 millimeter granular rubber for the purpose of providing even distribution.
- b) **Base Mat** - Multiple layers of Rubber and Binder shall be applied to achieve the specified thickness. Rubber shall be applied at 12.5 -14lbs./s.y. Latex binder shall be applied at .80 - .90gal./s.y. (Fortified latex binder shall be mixed 2 parts binder to 1 part water.) Latex binder shall be spray applied and shall fully encapsulate each rubber granule. The Binder shall include a colored track pigment containing UV inhibitors. Each layer shall dry and cure for a minimum of 12 hours.
- c) **Structural Spray Wear coat** – Apply Three (3) coats of Acrylic Structural Spray shall consist of black Plexitrac Surfacer. Apply Plexitrac Surfacer Using an approved spray pump apparatus capable of spraying rubber filled granules suspended in acrylic binder. Application rate is: 0.3 gallons per square yard per coat. This amount will vary depending on porosity, density, and smoothness of the base.
- d) **All labor** - shall be full time employees of the surfacing contractor.

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**Protection**

Surface installation crew shall be responsible for the protection of the track surface only during the application process of the materials. Owner or General Contractor shall be responsible for the protection of the track surface during the curing period, and upon completion of the installation.

**PART 4- PHYSICAL PROPERTIES OF FINISHED SURFACE**

**4.01 Physical Properties**

**Thickness** – (13MM) or 1/2 inch

**Color** – Standard color is Black. (Red, Blue, and Green are also available)

**Rubber level** – 12.5- 14lbs per sq. yd.

**PART 5- MEASUREMENTS AND EVENT MARKINGS**

**5.01 Line Markings**

The measurements and markings of lines and events shall be performed in accordance with the requirements of the appropriate governing body (NFSHSA, ASBA, and USATF).

**FOR SPECIFIC PROJECT SPECIFICATIONS, OR OTHER SPORTS APPLICATIONS, OTHER COLORS OR FOR FURTHER INFORMATION, PLEASE CONTACT:**

**QUALITY COURT INDUSTRIES, LLC  
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(225) 774-9974  
OR ON THE WEB AT:  
[www.qualitycourt.com](http://www.qualitycourt.com)**