



FASTER. SMARTER. STRONGER.

FLOOD AND CHIP RETOP SYSTEM
PRODUCT SPECIFICATIONS
EPIQ TRACKS X1000 RETOP

Part 1 – General

1.1 Summary

The Synthetic Surfacing Contractor shall furnish all materials, labor, supervision and equipment necessary for the accurate completion of the **epiQ TRACKS™ X1000 Retop** synthetic track installation and all project specific work indicated on the plans and specifications.

The guidelines established in this specification are to be considered minimum acceptable standards for installing a synthetic polyurethane track surface.

It is the responsibility of the Synthetic Surfacing Contractor to review the plans, specifications, field conditions and verify the locations where the **epiQ TRACKS X1000 Retop** surface is to be installed.

Contractors wishing to be considered as an “or equal” must provide documentation for their products at least 10 days prior to the bid opening.

The eco-friendly technology used to create **epiQ TRACKS** is a revolutionary breakthrough when it comes to meeting the IAAF standards. Typically IAAF protocol is met with waffle-like systems, air-infused products or sandwiched systems, which are comprised mostly of tire rubber. Manufacturers commonly introduce air or water to petroleum-based polyurethanes, creating a foam layer in order to pass the rigid standards.

epiQ TRACKS utilize new, non-petroleum based formulas to achieve resilience of vertical rebound and modified vertical deformation (MVD) instead of the antiquated water/air method.

epiQ TRACKS eco-based technology and exceptional chemistry has replaced 50-year-old petroleum based technology and allow us to create the most superior running track in the world.

epiQ TRACKS are anticipated to provide the foundation for the next generation of world record speeds.



1.2 Scope of Work

- a. The Synthetic Surfacing Contractor shall install an impermeable 3mm-4mm top surface layer composed of a mixture of colored two-component polyurethane and similarly colored EPDM granules.
- b. Layout and paint all track line and event markings in accordance with the latest edition of the IAAF, NCAA, NFHS or UIL rules and regulations, as applicable.

1.3 Coordination

Conduct operations while minimizing interference with other subcontractors on site. Do not obstruct walks or other occupied facilities without permission from the Owner. Perform work while minimizing the disturbance to Owner's scheduled events at the facility.

Part 2 – Standards and Codes

2.1 Guidelines

Guidelines to be followed on this project are those set forth by the IAAF, NCAA, NFHS or UIL, as applicable; along with the current material testing guidelines as set forth by the American Society of Testing and Materials (ASTM).

2.2 System Performance

- | | |
|-------------------------------------|-----------------------------------|
| a. Thickness | Average > 3mm-4mm or as specified |
| b. Force Reduction | 35-50% |
| c. Modified Vertical Deformation | 0.6mm-2.2 mm |
| d. Friction
TRRL Skid Resistance | > 47 |
| e. Tensile Strength | > 0.5MPa |
| f. Elongation at Break | > 40% |



2.3 Quality Assurance

- a. The Synthetic Surfacing Contractor shall have a minimum of 8 years of experience in the installation of polyurethane synthetic tracks similar to the one being installed on this project.
- b. The polyurethane materials shall be made in the United States.
- c. Manufacturer's chemist must have at least 10 years of experience in the manufacturing and compounding of two-part polyurethane designed specifically for sports surfaces.
- d. The Synthetic Surfacing Contractor shall have experience installing IAAF certified track systems.
- e. The Synthetic Surfacing Contractor shall attest that all track surfacing material meets or exceeds the requirements defined by the project specifications. Test data shall be submitted which shows that the product meets the required quality standards.
- f. The Synthetic Track Installation Supervisor must have installed a minimum of 10 similar polyurethane tracks in the last 3 years.

Part 3 – Submittal Data

The following submittal data must be received as part of the bid submittal:

- a. Standard printed specifications of the polyurethane track system being installed as part of this project.
- b. A reference list showing similar projects installed in the last 8 years.
- c. A synthetic track surface sample, minimum of 8"x11" in size, of the track system being installed on this project.

Part 4 – Materials

1. Primer

Polyurethane-based primers specifically formulated to be compatible with the existing surface and new track surfacing material.

2. EPDM Granules

The EPDM granules shall be manmade, a minimum of 18-20% peroxide cured EPDM, chopped, processed and having a specific density of 1.5 +/-0.03 and a Shore-A hardness of 60 +/-5%. The granules shall be graded 1mm-4mm in size unless otherwise specified.



3. Polyurethane

The topcoat is a UV stabilized, self-leveling, two-component polyurethane-based on 100% MDI.

The polyurethane is non-solvent, "TDI Free", and contains no mercury, lead, or any other heavy metals as defined by EPA. All polyurethane materials shall be made in the United States.

4. Line Marking Paint

The line marking paint shall be latex -based compatible with polyurethane synthetic track surfaces.

Part 5 – Execution

1. Existing Surface Base Preparation

a. The existing polyurethane surface to be surfaced shall be cleaned of all dirt, grease, oil, stains and all other foreign materials and then be allowed to dry prior to the installation of the surface. Mechanical power washing may be required for hard-to-remove substances. Brooms, vacuum and/or blowers will be required to remove soil, dust, etc., from the existing surface.

b. Marking Defective Areas

Impervious Surface System

In the process of cleaning the existing surface, the total surface area must be flooded with water on a warm day. As the surface dries, the total area is to be inspected by the Owner and Synthetic Surfacing Contractor for all defective areas such as delamination, cuts, cracks, holes, excessive wear, etc. All defective areas are to be outlined/marked with paint. The defective areas are to be repaired as outlined under section d. repairs.

Porous Surface System

The total area is to be inspected by the Owner and Synthetic Surfacing Contractor for all defective areas such as delamination, cuts, cracks, holes, excessive wear, etc. All defective areas are to be outlined/marked with paint. The defective areas are to be repaired as outlined under section d. repairs.



c. Vegetation

Any vegetation in the existing base or surface shall be removed in a manner designed to avoid damage to the surface. These areas shall be treated with Roundup® or similar herbicide to inhibit the future growth of vegetation.

d. Repairs

Asphalt Repairs

Areas in the existing asphalt surface exhibiting cracks and holes and in need of repair shall be filled with asphalt material recommended by the Synthetic Surfacing Contractor or approved equal selected for its qualities of adhesion. Repair shall return the surface to a uniform plane and hardness.

Existing Synthetic Surface Repairs

Areas in the existing polyurethane surface in poor condition from delamination, holes, cuts, cracks, excessive wear or poor repair spots shall be repaired or replaced as needed. The repairs shall return the existing base surface to a uniform plane and condition.

Surface area in need of repair will have been previously outlined/marked by paint by the Synthetic Surfacing Contractor and approved by the Owner. Repairs not to exceed 50 square feet and no replaced or repaired area shall be considered less than one square foot.

Existing paint on lane lines, marks, etc., which is raised above the surface, must be buffed or ground to level of existing surface.

2. Synthetic Track Surface

epiQ TRACKS X1000 Retop forms a resilient, economical and durable surface that is resistant to UV degradation, abrasion, shrinkage, mold and most common oils and chemicals.

The surface is available in Red or Black (Other colors are available at an additional cost).

a. Primer

The primer shall be spray-applied in accordance with the Manufacturer's specifications. Only those areas that can be installed within 24 hours should be primed.



b. Top Surface Wearing Layer

The top layer shall consist of a self-leveling squeegee applied minimum 3mm- 4mm layer of a UV stabilized, two-component polyurethane on to which pigmented EPDM granules are broadcast at a rate of approximately 7.5 pounds per square yard, prior to the initial set. The two-component polyurethane shall be mixed using state of the art automatic metering mixer for a precise measured ratio.

After the cure is complete, the excess rubber granulate is removed by means of a mechanical sweeper. The EPDM granulate remaining embedded in the surface is approximately 5 pounds per square yard.

c. Line Markings

All line and event markings shall be applied by experienced personnel, utilizing latex -based paint compatible with the synthetic track surfacing.

All marking dimensions will be certified in accordance with the specifications issued by the appropriate sanctioning or governing body such as IAAF, NCAA, NFHS or UIL, as applicable.

No striping operations may commence if temperature is 45°F and falling.

Do not place any paint under wet or damp conditions or when relative humidity is above 85%.

The line-striping machine shall be capable of producing neat, clean edges on all lines.

Part 6 – Warranty

epiQ TRACKS X1000 Retop is warranted against defects in workmanship, labor and materials under normal use and service for a period of sixty months. The warranty excludes any damage or defects caused by improper design or engineering, by an inadequate or defective base, by normal wear and tear, vandalism, abuse, neglect, lack of maintenance, or acts of God.

Part 7 – Installer

epiQ TRACKS X1000 Retop shall be installed only by trained craftsmen who are full time employees. No outside installer or distributor will be sold or furnished with **epiQ TRACKS** material for installation unless licensed by Manufacturer.



epiq TRACKS™
X1000



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It is a requirement of this specification that the selected installer be required to supply proof of insurance and conformance to the Prevailing Wage Laws, if applicable for location.

Certified Installer
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