

13MM FULL-POUR SYSTEM PRODUCT SPECIFICATIONS EPIQ TRACKS™ G4000 ENCAPSULATED

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 TRACKSTM G4000** 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 G4000** 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.

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 a poured-in-place synthetic track surface of impermeable design that is installed in a multi-layer application.
- 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 the interference with other subcontractors on site. Do not obstruct walks, or other occupied facilities without permission from the Owner. Perform work while minimizing disturbance to Owner's scheduled events at the facility.





FASTER, SMARTER, STRONGER,

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 quidelines as set forth by the American Society of Testing and Materials (ASTM).

2.2 System Performance

a.	Thickness	Average ≥ 13mm or as specified
b.	Force Reduction	35-50%
C	Modified Vertical Deformation	0.6mm-2.2mm

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d.	Friction	≥ 47

TRRL Skid Resistance

e. Tensile Strength ≥ 0.5MPa

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
- 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 fulldepth 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 base and track surfacing material.

2. Polyurethane

UV stabilized, self-leveling, two-component polyurethane based on 100% MDI. The polyurethane is solvent-less, "TDI Free", and contains no mercury, lead, or any other heavy metals as defined by EPA. All polyurethane materials shall be US made.

3. Black SBR Granules

The rubber granules shall be recycled SBR rubber, processed and chopped to 1mm-3mm size, containing less than 4% dust. Granules containing any traces of fiber or steel are unacceptable.

4. 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 ± 0.03 . The granules shall be graded 1mm-4mm in size unless otherwise specified.

5. Line Marking Paint

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





Part 5 - Execution

1. Sub-base

The Synthetic Track Surfacing System shall be laid on an approved sub-base. The General Contractor shall provide compaction test results of 95% or greater for the installed sub-base and asphalt or concrete surface.

For NCAA certification, the following criteria must be followed. The track surface i.e., asphalt substrate, shall not vary from planned cross slope by more than +/-0.1% with a maximum lateral slope outside to inside of 1% and a maximum slope of 0.1% in any running direction. The finished asphalt shall not vary under a 10' straight edge more than 1/8".

It should be the responsibility of the asphalt-paving contractor to flood the surface immediately after the asphalt is capable of handling traffic, but within 24 hours. If, after 20 minutes of drying time, there are birdbaths evident, it shall be the responsibility of the Architect, in conjunction with the surfacing contractor to determine the method of correction. No cold tar patching, skin patching or sand and oil mix patching will be acceptable.

Any oil spills (hydraulic, diesel, motor oil, etc.) must be completely removed, by either chipping out or removing and replacing with new, keyed in asphalt. The minimum depth of any asphalt replacement shall be one inch. The curing time for the asphalt is 14-21 days. It shall be the responsibility of the Synthetic Surfacing Contractor to determine if the asphalt substrate has cured sufficiently prior to the application of polyurethane surfacing system.

It shall be the responsibility of the General Contractor to determine if the asphalt substrate meets all design specifications, i.e. cross slopes, planarity and specific project criteria.

Upon completion of surface test and correction of any defects, track surface contractor shall submit to Engineer or Owner a signed certificate stating the existing surface is acceptable and satisfactory for the installation of the track surface system.

2. Synthetic Track Surface

epiQ TRACKS G4000 is a poured-in-place running track surface of impermeable design that is installed in a multi-layered application. The base layer consists of two-component polyurethane and SBR or EPDM granules. The top layer is a flow applied layer of the same pigmented polyurethane and embedded pigmented EPDM rubber granules. The result is a durable, resilient, textured all-weather surface. The total system standard thickness is 13mm.

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





epiQ TRACKS G4000 can be laid on any smooth, stable base such as asphalt or concrete. It forms a resilient, economical and durable surface that is resistant to UV degradation, abrasion, shrinkage, mold and most common oils and chemicals.

1. Curing

Before application of the synthetic surface can begin, the asphalt should be cured for at least 14-21 days, and a concrete base for a minimum of 28 days.

2. Cleaning

The area to be surfaced shall be clean and free of any loose or foreign particles (dirt, oil, etc.) prior to commencement of the work. The surface is usually cleaned by use of a power blower and/or high-pressure washer.

3. Priming

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.

Synthetic track materials are to be placed only when temperature is above 45°F and rising.

No materials should be placed when surfaces are wet or damp, precipitation is falling or imminent, or when other unsuitable conditions for the installation of the system are present.

4. Base Layer

The base layer shall consist of two layers of pigmented two-component polyurethane and SBR rubber granules. The two-component polyurethane shall be mixed using state of the art automatic metering mixer for a precise measured ratio. The SBR granules are to be broadcast at a rate of 7.5 pounds square yard prior to the initial set. After the cure is complete, the excess rubber granulate is removed by a means of a mechanical sweeper.

5. 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.

Protective Coating: Spray apply initial pigmented aliphatic polyurethane coating over entire surfaced area at a rate of 200 – 275 square feet per gallon. Spray apply second coating at same rate but in opposite direction.

6. 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 G4000 is warranted against defects in workmanship, labor and materials under normal use and service for a period of sixty (60) 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 G4000 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.





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
Hellas Construction, Inc.
12710 Research Blvd. Ste. 240
Austin, Texas 78759
T 512.250.2910
F 512.250.1960
www.hellasconstruction.com

