

Hybrid Polyurethane Running Track System

System & Installation Guide

Structural guidance for the hybrid polyurethane running track system, including design, installation conditions and construction steps.

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1. Overview

The Hybrid Polyurethane Running Track System features an elastic base layer formed by mixing polyurethane (PU) binder with rubber granules at a specified ratio and paving the mixture in place. A wear-resistant, slip-resistant wearing course is then spray-applied to create a durable running track system with consistent overall performance.

It is suitable for school athletics tracks, sports school training facilities, and other venues with demanding requirements for durability and athletic performance.

2. Key Features

Consistent Overall Performance

The dense, uniform elastic base layer provides consistent cushioning and a uniform feel underfoot across the track.

Wear Resistance and Durability

Good resistance to aging and fatigue makes the system suitable for high-frequency use.

Slip Resistance and Traction

The evenly textured spray-coated wearing course provides more consistent friction under both dry and wet conditions.

Resistance to Spiked Shoes

Good cut and tear resistance helps the surface withstand repeated impact from athletic spikes.

Easy Maintenance

Routine maintenance mainly involves regular cleaning, while localized damage can be repaired by patching.

3. Typical System Structure

Subbase

Primer / Sealer Coat

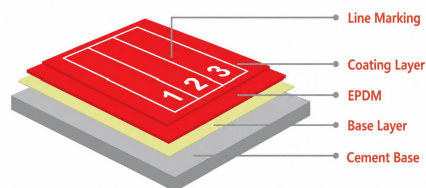
Elastic Base Layer

(Polyurethane Binder + Rubber Granules)

Spray-Coated Wearing Course

(Polyurethane Binder + Fine EPDM Granules)

Track Markings



4. Installation Guidelines

Installation Conditions

- The subbase must be sound, flat, dry, and clean, with gradients conforming to the project design. It must be free from oil contamination, surface dusting, loose material, and hollow or debonded areas.
- Do not carry out installation during rain or when the subbase is damp or affected by condensation. Protect the spraying area from dust and strong winds.

Installation Process

1. Subbase Preparation

Sweep the surface and remove all dust. Repair cracks, depressions, and other surface defects, and level the subbase. Where necessary, grind or shot-blast the surface to improve adhesion.

2. Primer / Sealer Coat

Apply the primer evenly by roller to seal surface pores and improve adhesion. Apply an additional coat to highly absorbent areas if required.

3. Installation of the Elastic Base Layer

Thoroughly mix the polyurethane binder with the rubber granules at the specified mixing ratio. Spread and compact the mixture mechanically or manually to the specified thickness, ensuring the required surface flatness and proper finishing of joints between adjacent sections.

4. Curing and Surface Finishing

After curing, grind down high spots and repair depressions and joints to provide a uniform surface for the subsequent spray application.

5. Spray Application of the Wearing Course

Apply the wear-resistant, slip-resistant wearing course containing fine EPDM granules in multiple cross-directional spray passes. Ensure a uniform surface texture and consistent color.

6. Setting Out and Line Marking

Set out the track markings in accordance with the drawings and apply specialist line-marking paint. The line widths and positions must comply with the applicable specifications.

7. Curing and Opening to Use

Close off the completed area and allow the system to cure fully. Open the track for use only after

it has fully cured.

