Breathable Running Track Construction Guide

- Certified by World Athletics
- Ideal for school, municipal & community tracks

I. Substrate Preparation

Dry asphalt substrate — cured for at least 30 days, with no rising moisture.
Smooth, waterproof concrete substrate — cured for at least 30 days, with no rising moisture.

Thoroughly remove dust, oil, and loose particles from the surface. Apply single-component polyurethane primer (e.g., **MOUNTSHIP Primer-X**) evenly with a roller. Begin installation of the base elastic layer **within 6–12 hours**, while the primer is still tacky.

II. Base Shock-Absorbing Layer Application

Mix single-component moisture-cure PU binder (e.g., **MOUNTSHIP A200**) with SBR granules (1–4 mm) in a clean container; stir thoroughly for ⩾3 minutes — **strictly avoid water contamination**. Then spread by paver or hand straightedge, and compact to ensure uniform density.

Under standard conditions (23°C, 50% RH), cure for 48–72 hours. Higher temperature and humidity significantly shorten curing time. **MOUNTSHIP A200 can be accelerated by water misting** — ideal for tight-schedule projects.

Asphalt Base Requirements for EPDM Surfacing Systems

Critical Note: Base quality directly affects system longevity. A full pre-installation assessment is mandatory

I. Base Strength and Compaction Density

- Asphalt compaction density: ⩾**95%** (Marshall standard);
- Surface shall be free of **raveling, bleeding (oil exudation), rutting, or alligator cracking;**
- Quick field check: Scratch with a rigid tool — **no visible asphalt granules shall detach**. If "bleeding" occurs (shiny black oil film on surface), indicating improper mix design or insufficient compaction, milling and reprocessing are required; **installation is prohibited**.

II. Flatness and Drainage Gradient

- Flatness: **Gap under 3-m straightedge ⩽ 4 mm;**
- Drainage slope:
  - Outdoor: **0.3%–0.8%** (to ensure no ponding within 24 hours);
  - Indoor: ⩽ **0.5%.**

Hybrid Running Track Construction Guide

Recommended for multi-sport use – schools stadiums, training centers

I. Pre-Construction Preparation

Thoroughly clean the site before construction; the substrate surface must be free of dust and other loose debris.

II. Substrate Treatment

Concrete Substrate
Apply **MOUNTSHIP Primer** evenly onto the smooth, fully-cured concrete substrate (⩾3 0 days old), at a dosage of **0.15–0.2 kg/m²**.

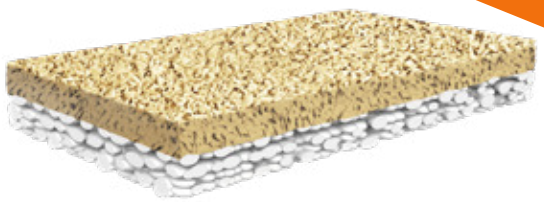
Asphalt Substrate
Seal the asphalt surface using a mixture of **sealing emulsion : water : cement : quartz sand = 1 : 1 : 2**. Stir thoroughly. Depending on weather conditions, add appropriate amounts of drying agent and leveling agent.

III. PU Elastic Base Layer Application

Thoroughly mix **MOUNTSHIP PU rubber granules** (1–4 mm) to form the elastic compound.
Pour the mixed material onto the prepared substrate and spread using a notched PU squeegee, applying in **2–3 passes** to achieve the specified thickness.
After 24 hours (varies with temperature/humidity), once the layer is cured, conduct a water puddle test: fill low spots with the same-batch compound and locally grind any irregularities for smoothness.

MOUNTSHIP EPTU Popcorn Granule Construction Guidelines

High-Rebound, Lightweight System
The EPTU system delivers **superior resilience (>70% rebound), excellent impact absorption, zero odor,** and **eco-friendliness**. It is ideal for premium applications including kindergartens, rehabilitation centers, sports facilities, and commercial projects.



I. Substrate Preparation

Concrete base (recommended):
- Strength ⩾ C25
- Flatness ⩽ 3 mm deviation under 3-m straightedge
- Moisture content ⩽ 6%

Asphalt base:
- Compaction ⩾ 95%
- Curing period ⩾ 30 days
- Free of bleeding (oil exudation)

II. Material Specifications & Mixing Ratio

Core Material Parameters

Item	Specification
Granule Type	**MOUNTSHIP** EPTU Popcorn Granules
Bulk Density	0.3–0.6 g/cm³
Particle Size	Standard: 3–8 mm

Recommended Mixing Ratio (by weight)

Binder : EPTU Granules = 1 : 3.5 – 4.0

Manufacturer:Yiwu Mojiudi New Materials Co., Ltd.
Technical Support: info@mountship.com
Website: www.mountship.com

Full-Pour (All-PU) Running Track Construction Guide

Recommended for multi-sport use – schools, stadiums, training centers

I. Pre-Construction Preparation

Thoroughly clean the site before construction; the substrate surface must be free of dust and other loose debris.

II. Substrate Treatment

Concrete Substrate
Apply MOUNTSHIP Primer evenly onto the smooth, fully-cured concrete substrate (⩾3 0 days old), at a dosage of **0.15–0.2 kg/m²**.

Asphalt Substrate
Seal the asphalt surface using a mixture of **sealing emulsion : water : cement : quartz sand = 1 : 1 : 2**. Stir thoroughly. Depending on weather conditions, add appropriate amounts of drying agent and leveling agent.

III. PU Elastic Base Layer Application

Pour the **MOUNTSHIP** PU onto the prepared track substrate, and spread it evenly using a PU notched squeegee in 2–3 passes to control material consumption and achieve the specified thickness.

Concrete Base Requirements for EPDM Surfacing Systems

Critical Note: Base quality directly determines the service life of the EPDM system. A full pre-installation assessment is mandatory.

I. Structural Strength and Integrity

- Minimum compressive strength: **C25 (25 MPa)**
- Surface requirement: Free of dusting, sanding, or hollow sounds (honeycombing)
- Field verification: Light abrasion with a hard tool (e.g., steel nail). **Prohibited if** loose particles, sand, or white powder is produced.

- Base thickness: ⩾**100 mm**
  - Thickness <100 mm significantly increases settlement/cracking risks → EPDM surfacing is **not recommended**.
- Repaired areas: Must be structurally compatible with the original slab. Large/structural repairs require full removal, re-pouring, and standard 28-day curing.

II. Flatness and Drainage Gradient

2.1 Flatness Standard

Application Type	Allowable Deviation (3-m straightedge)
General Projects	⩽3 mm
High-Precision Projects (Kindergartens, Hospitals)	⩽2 mm (preferred)