Ballpark System Catalog

One-stop service
Integrated installation and maintenance of stadium venues.

MPU® COATINGS

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Company Profile

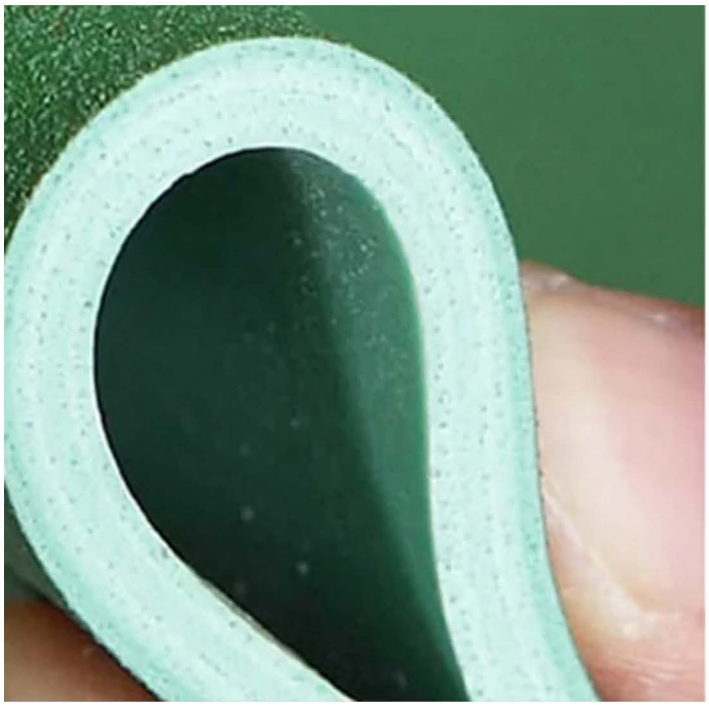
Jiangmen Choi Sum Environmental Materials Co., Ltd. (abbreviated as “MPU Coatings”) is a comprehensive enterprise specializing in the R&D, manufacturing, and sales of sports flooring materials, architectural coatings, and building repair materials. We are dedicated to providing customers with high-tech products alongside a full range of after-sales services.

Our vision is to lead the sports flooring industry by ensuring product safety and quality through continuous research and innovation. We strive to meet the flooring needs of various environments, including communities, schools, public spaces, and professional venues, while delivering premium service worldwide.

Our core technical team boasts over ten years of experience in design, development, quality management, technical support, and business services. With a robust technical service network, we ensure efficient and professional solutions tailored to our clients' needs.

Si-PU Overview

Silicone PU elastic layer is a high-performance sports flooring material known for its excellent cushioning, strong adhesion, and self-leveling properties. It is easy to install, has outstanding anti-aging capabilities, and maintains chemical stability post-installation, making it an ideal choice for durable and reliable sports surfaces.



Features of Silicone Polyurethane

1. Solvent-Free Micro cellular Structure

Both silicon PU and track materials are single-component micro cellular structural materials without solvents.

2.Innovative Production Process

Innovative production process, high solid content of elastic adhesive, low plasticized content, maintaining low viscosity of 5000-8000, easy construction without curing agent, and long storage time of materials.

3. Technically Modified Polyurethane

The reinforced adhesive layer material is a technically modified polyurethane material with outstanding characteristics, no plasticized, good leveling, single-component does not foam, no need for grinding, and has strong adhesion with the elastic adhesive and coating

4. Environmentally Friendly Construction

No need to add any diluent materials during the construction process,truly achieving tasteless, environmentally friendly, and ensuring sampling meets current national testing standards.

5. Minimal Climate Impact

The material construction is minimally affected by climatic conditions, making the construction process simple and the performance stable.

6. Strong Color Retention and Durability

The silicon PU topcoat has strong color retention, stain resistance, and does not chalk, maintaining industry leading standards

Si-PU Sports Physical Characteristics

Designed with ergonomic principles and tailored to the physical demands of sports, our Si-PU system features a hard top layer and an elastic bottom layer. This professional, health-focused synthetic court surface can be directly applied to cement or asphalt. Named “Si-PU” for its single-component silicone-modified polyurethane buffering and rebounding structure.

Si-PU structure

· Wear Layer

Super strong wear resistance, durability, and reasonable sliding friction.

· Reinforcement Layer

Reasonable transition between softness and hardness, professional rebound.

· Elastic Layer

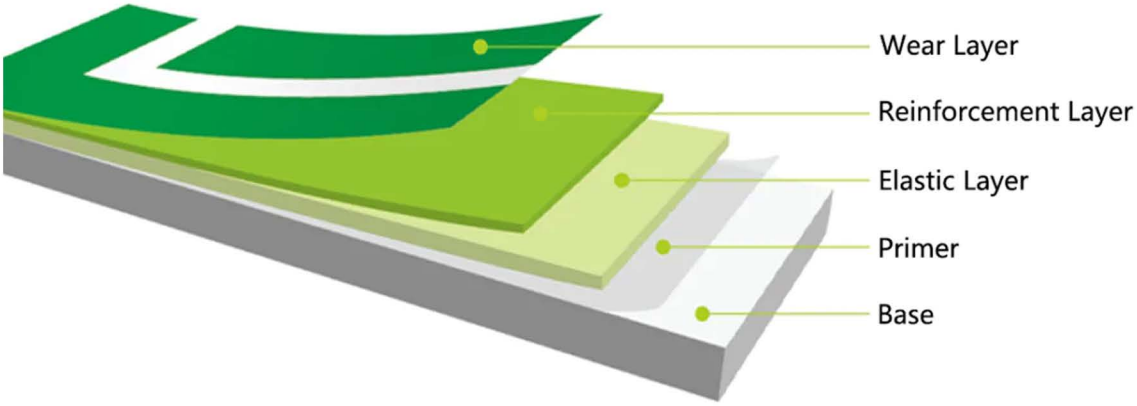
Professional elasticity and comfortable cushioning absorption performance.

· Primer

Penetration, strengthening the base, improving adhesion

· Base

Cement or asphalt.or asphalt.



Si-PU Sports Physical Characteristics

·Provide professional, safe, and healthy competitive conditions for sports; only fields with rigid characteristics can bring a professional sports feel.

·An elastic sports surface can effectively increase motion cushioning, reducing injuries to athletes' ankles, joints, and ligaments caused by ground reaction forces.

·Effectively reduce accidental sports injuries caused by falls and slips during exercise.

1. Start to touch the ground

3. Rebound at the start

2. Compress and buffer after force

4.Recover quickly

Si-PU Sports Physical Characteristics

· Stable and even rebound

The rigid surface layer retains enough rebound support, combined with the rebound characteristics of the elastic layer and reinforcement layer, ensuring the rebound quality of the ball. It meets the requirements of professional sports for ball feel and effectively solves the problems of ball sinking, sticking, and uneven rebound on PU material soft surfaces.

· Effective cushioning and shock absorption

Provides effective shock absorption and cushioning protection for sports, effectively reducing sports injuries caused by the reaction force of the ground on the ankles, joints, and ligaments.

· Excellent anti-slip start

The reasonably hard and rough surface layer, with moderate surface friction and an elastic but not soft bottom structure, provides sufficient friction power for starting, changing direction, jumping, and sudden stopping in sports. It effectively prevents slipping caused by wet surfaces.

· Comfortable shifting

Provides a sufficient physical foundation for stable, multi-directional, and rapid movements in sports. The lower layer adjusts the model of the elastic body to achieve a reasonable transition from hard to soft structure.

Stable and uniform rebound

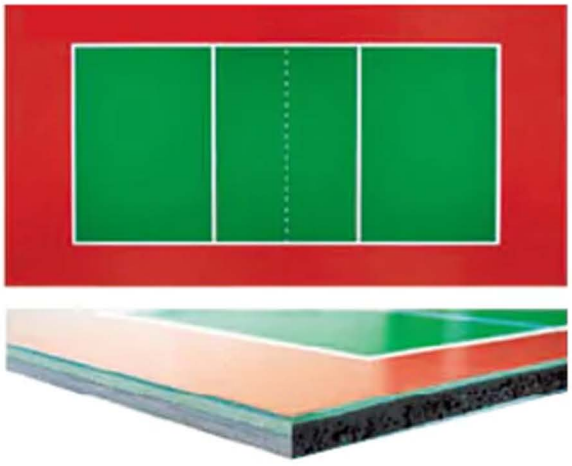
Effective cushioning and shock absorption

Excellent anti-slip start

Comfortable shifting

Application Areas

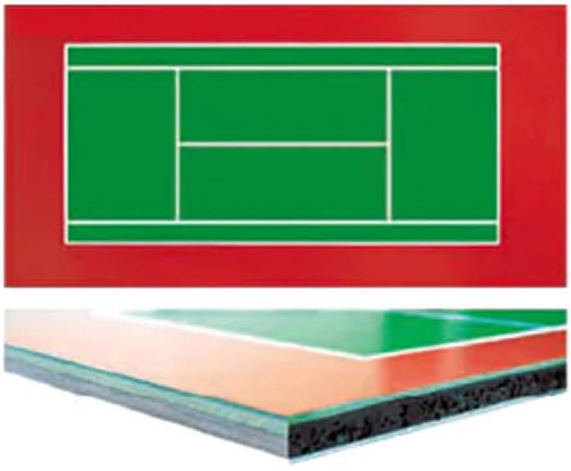
It is widely used in the laying of basketball courts, tennis courts and other venues. It can also be laid on the surface of black particle base and low-density rubber mat.



Vollball System

Basketball System

Badminton System



Tennis System

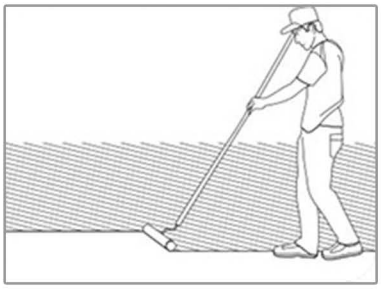
Construction Process

1. Base treatment

According to the construction instructions, handle the cement or asphalt base. After completion, the base strength shall reach the C25 strength of building concrete standard.

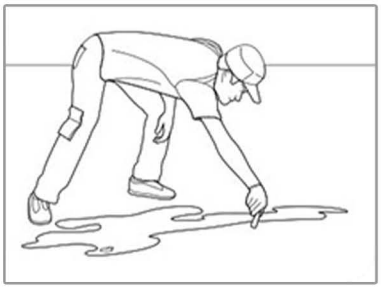
2. Roll - on primer

Apply a layer of special primer to the base surface by rolling or scraping.



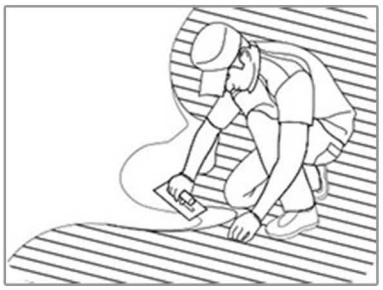
3. Ponding repair

Sprinkle water over the entire site, mark the areas with ponding with a pen, dry the site, and use a straightedge or scraper to smooth out the ponding areas.



4. Sealing and leveling

Use a trowel to spread the leveling material onto the base.



5. Scraping of the elastic layer

Scrape with a notched trowel and distribute the scraping amount according to the thickness standard.

6. Scraping of the reinforcing layer

Scrape with a notched trowel and distribute the scraping amount according to the thickness standard.

7. Grinding of the reinforcing layer

After the reinforcing layer has solidified, use a special sanding machine with 80 - grit sandpaper for overall grinding treatment.

8. Scraping of the surface layer

Prepare materials according to different site uses and use a notched trowel to spread the materials onto the base surface.

9. Marking lines

Measure and mark the boundary positions, mix the marking paint evenly, and use a line - marking spraying machine to spray the marking lines.