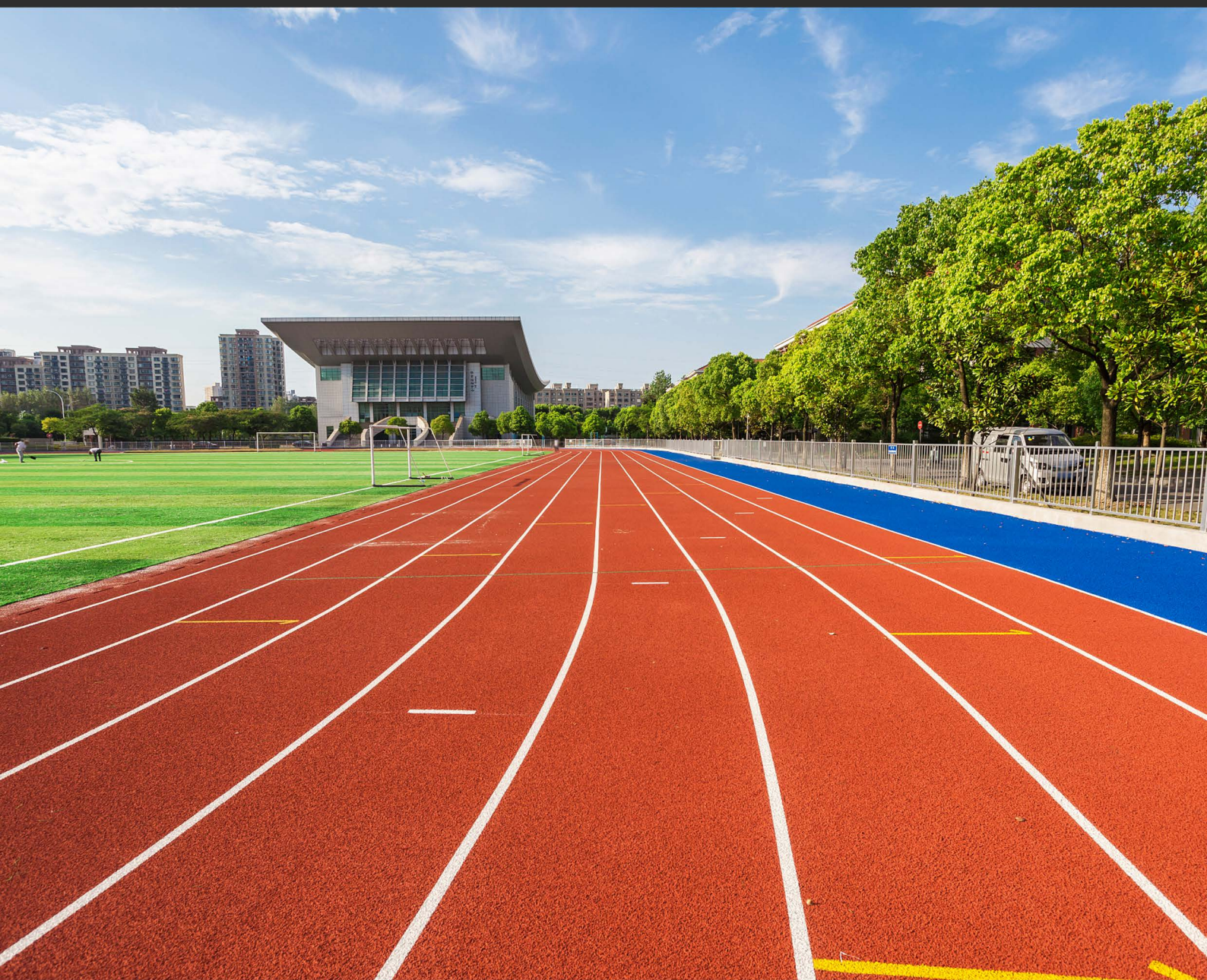


Sports venue system Catalog



One-stop service
Installation and maintenance of
sports fields and courts are integrated.



MPU[®] COATINGS

Jiangmen Choi Sum Environmental
Materials Co. , Ltd.

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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.

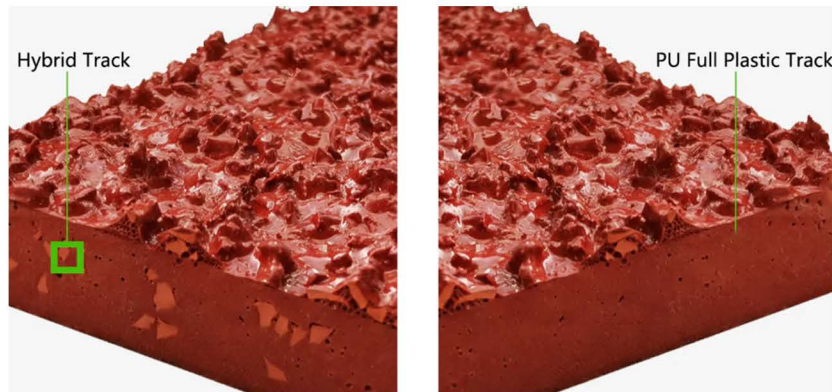
Our core technical team boasts over ten years of experience in design, development, quality management, technical support, and business services. With a robust technical service network, we ensure efficient and professional solutions tailored to our clients' needs.



Si-PU Running Track System

PU Full Plastic Track & Hybrid Track

Si-PU elastic layer is a high-performance sports track 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 tracks.



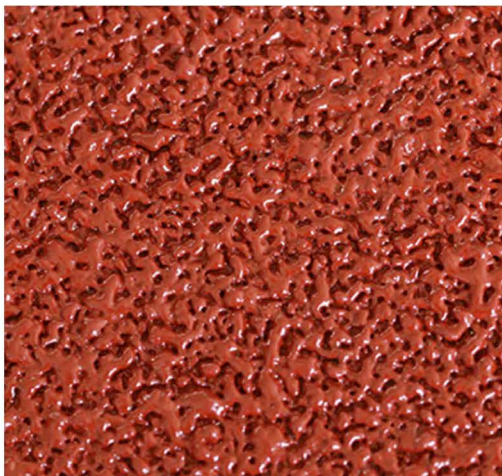
Self-knotting & Grainy surface

· Sprayed Granular Surface Layer

After the strengthening layer has cured at room temperature, a mixture of high-purity polyurethane compounds and small-grain, high-polymer content elastic particles is blended in a specific ratio and evenly stirred. This mixture is then applied using professional high-pressure equipment, forming a 2-3mm thick granular surface layer.

· Self-texturing Surface Layer

After the strengthening layer has cured at room temperature, specialized viscous polyurethane material is applied using professional high-pressure equipment, forming a 2-3mm thick surface layer with distinct concave-convex tex-



Self-knotting

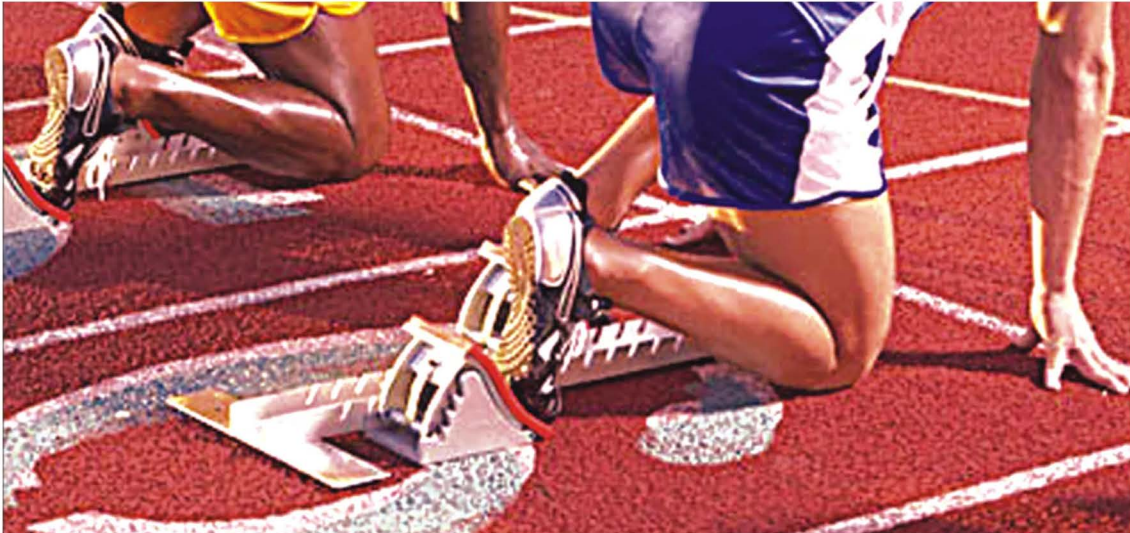


Grainy surface

PU Full Plastic Track

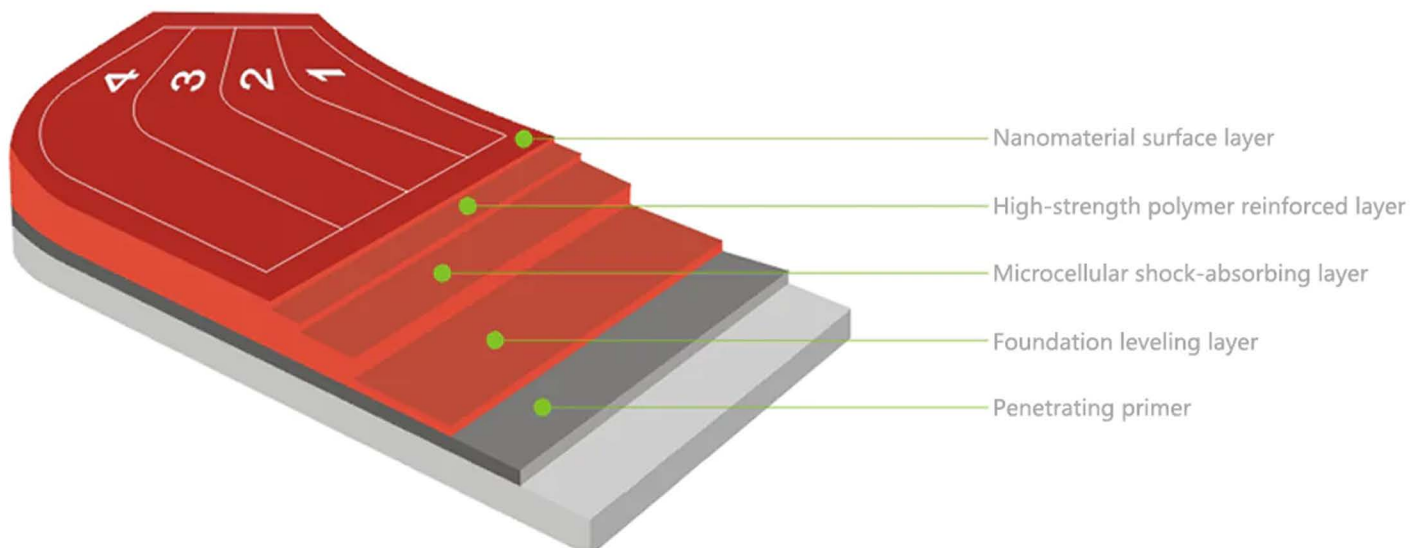
Si-PU Sports Physical Characteristics

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 Running Track Structure

Polyurea self-textured surface layer
High-strength reinforcement layer
Mixed particle elastic layer
Penetrating
Cement/asphalt base



Micro air bag buffer rebound structure

Provide the most reasonable protection and professional economic assistance for sports

1. Force compression buffer
2. Starting rebound assist
3. Instant recovery of force release



Micro air bag buffer rebound structure



1. Force compression buffer



2. tarting rebound assist



3. Instant recovery of force release

Seamless sports field structure

Comprehensively solve the quality problems caused by the seams of rolled products.

Adopt an integrated seamless forming process, which can achieve secondary leveling of the site, ensuring the smoothness and uniformity of the track; the fully enclosed seamless structure effectively prevents external rainwater from infiltrating the track, causing deformation of curves, seam cracking and lifting, water seepage, or bubbling and other quality issues.



Runway cracking



Water seepage and bubbling



Curve deformation



Joint arching

Non-toxic and odorless material

From raw materials to finished products, we measure with smell and make the impossible possible

· Certification Compliance

Our si-PU products meet EU RoHS and CE certifications, ensuring international quality standards.

· Advanced Material Selection

We use scientifically selected anti-aging polymer materials combined with advanced anti-aging agents to enhance durability and stability.

· Innovative Technology

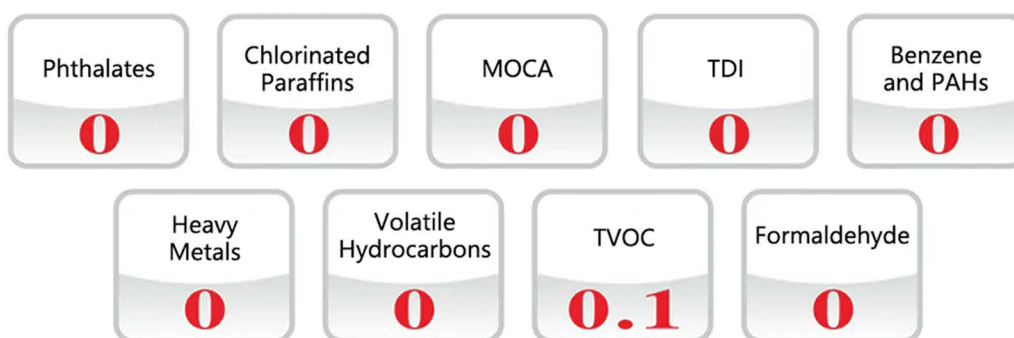
Our products incorporate micro-capsule nano technology, providing deep integration and extended longevity.

· Safety Assurance

Free from harmful substances such as phthalates, chlorinated paraffins, MOCA, TDI, benzene substances, polycyclic aromatic hydrocarbons (PAHs), and heavy metals, ensuring safety and environmental friendliness.

· Low Emissions

With a TVOC content of just 0.1, our products fully comply with the latest international standards, promoting a healthier environment.



The product meets
EU RoHS and CE certification



Scientifically selected anti-aging
polymer materials combined with
anti-aging agents



Micro-capsule technology combined
with deep nano integration



Comprehensive stability meets
new international requirements

Fully plastic self-tie			
1k Full Plastic Self-Knot Pattern Track 13mm		2k Full Plastic Self-Knot Pattern Track 13mm	
Material Type	Usage Kg/m ²	Material Type	Usage Kg/m ²
SW01 Cement Primer	0.2	SW01 Cement Primer	0.2
Running Track Elastic Layer CP02-X	10.8	Elastic Layer CP02-P (5:1)	11
Running Track Self-Knot Surface Layer CP05	1.5	Running Track Self-Knot Surface Layer CP05	1.5
Auxiliary (02-0.05)	0.54	Auxiliary (02-0.05)	0.22

Full plastic grain surface					
	1k Full Plastic Granular Surface Track (13mm)			2k Full Plastic Granular Surface Track (13mm)	
	Material Type	Usage Kg/m ²		Material Type	Usage Kg/m ²
Primer	Polyurethane Primer SW01	0.2	Primer	Polyurethane Primer SW01	0.2
Elastic Layer	Elastic Layer CP02-X	9	Elastic Layer	Elastic Layer CP02-P (5:1)	9.5
Spraying Surface	Surface Layer CP04	1.1	Spraying Surface	Surface Layer CP04	1.1
	20% EPDM Granules (1-3) Red/Green	1.1		20% EPDM Granules (1-3) Red/Green	1.1
	Auxiliary (02-0.05)	0.45		Auxiliary (02-0.05)	0.19

PU Full Plastic Track

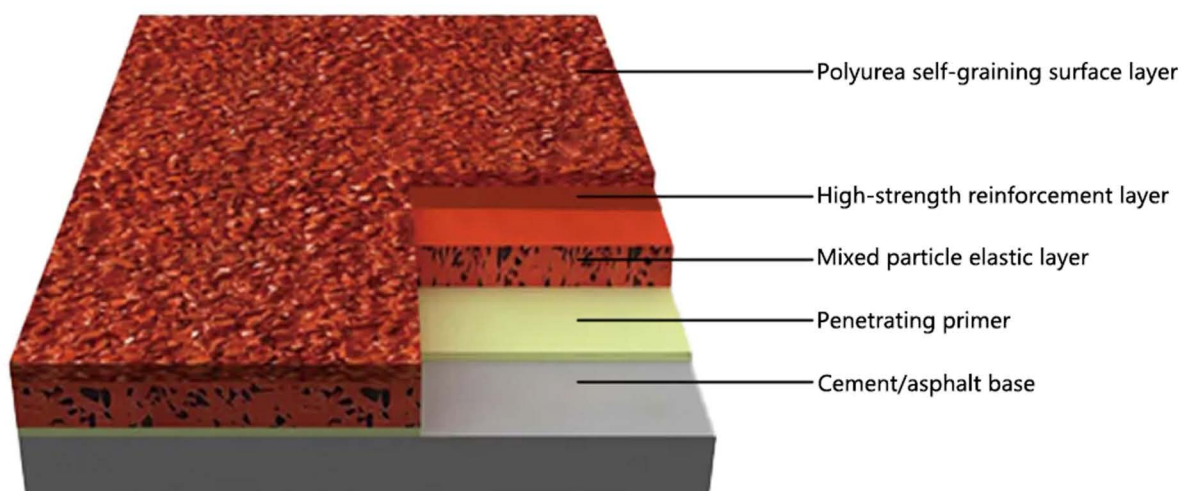
Si-PU Sports Physical Characteristics

The MPU eco-friendly hybrid plastic track features a base layer made of PU slurry mixed with EPDM granules, and a surface layer sprayed with a blend of specialized surface adhesive and EPDM granules. This type of track offers a comfortable level of elasticity, effectively reducing physical exertion. The highly resilient cushioning layer absorbs powerful impacts, significantly minimizing the risk of sports injuries.



Si-PU Sports Physical Characteristics

Nanomaterial surface layer
High-strength polymer reinforced layer
Microcellular shock-absorbing layer
Foundation leveling layer
Penetrating primer



Construction Process

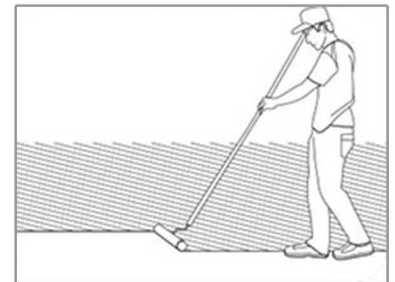
1. Base treatment

The temperature seam base surface is cut into a V shape for grinding the base surface with a dry grinder or a water grinder.



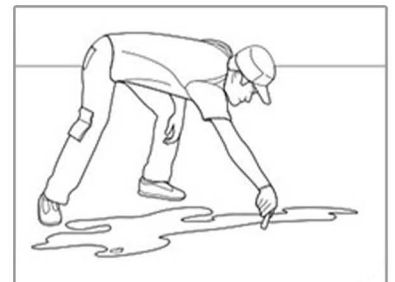
2. Primer construction

Use a special cement base treatment agent to roll or scrape on the base surface in one layer. After the primer is dry, use a special caulking glue to fill the temperature seam.



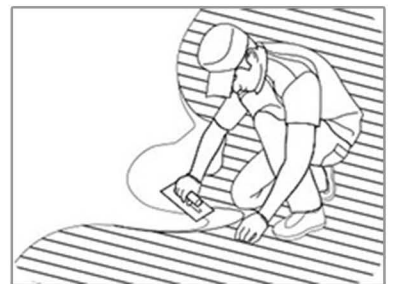
3. Water accumulation repair

Find the water accumulation place in the whole venue, circle it with a pen, dry the venue; use a ruler or scraper to scrape and level the water accumulation place.



4. Sealing and leveling layer

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



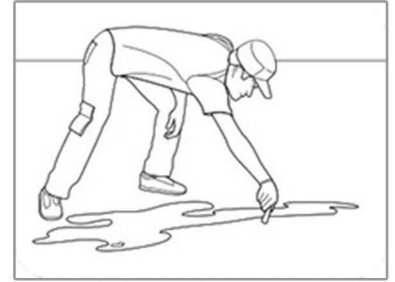
5. Foam elastic layer construction

Use a toothed scraper to apply the elastic coating, distributing the amount according to the thickness standard.



6. Ponding repair

After the foam elastic layer has solidified, conduct a ponding test, mark the ponding areas, and repair them with strengthening - layer materials.



7. Strengthening - layer scraping

Use a rubber scraper or toothed scraper to apply a layer, distributing the amount according to the thickness standard.



8. Strengthening - layer grinding

After the strengthening - layer has solidified, use a special sanding machine with 80 - grit sandpaper to grind the entire surface.



9. Grain surface or self-graining construction

Load the prepared material into the runway spraying machine and evenly spray it onto the surface of the ground - strengthened layer in two passes, maintaining uniform self - leveling texture.



10. 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.

