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ISO9001/ISO14001

SYNTHETIC FLOOR

ASTM/TUV TEST

佛山市高锐康新材料有限公司
FOSHAN GRK COMMERCIAL CO LTD



PROFILE

佛山市高锐康新材料有限公司 创立于2016年, 已成为集研发, 生产, 销售, 服务于一体的专业合成地面材料供应商, 目前公司拥有中山和河源两家工厂.

公司坚持以客户为中心, 始终关注消费者和终端用户的需求, 根据不同区域, 气候特点及现场使用要求, 以及各行业对卫生环保等高标准特殊要求, 在产品方面进行科学试验及大胆革新, 形成了完整的产品结构和独特的产品线.

产品种类包括: 环氧树脂地坪系统, 聚氨酯地坪系统, 水性材料地坪系统, 橡胶地板等.

在未来发展的道路上, 高锐康坚持以诚信, 质量, 服务为基础, 竭力为消费者创造更安全舒适的合成地面材料.

FOSHAN GRK COMMERCIAL CO LTD— is established in 2016, has developed as a professional and reliable synthetic flooring manufacturer and supplier, with two factories in Zhongshan and Heyuan.

GRK insists on customer-centered, always pays attention to the needs of the consumers and end users, according to different regions, climatic characteristics and on-site use requirements, as well as the industry's special requirements for high standards such as health and environmental protection, scientific experiments and bold innovations in products, have formed a complete product structure and unique product line. Product categories include: epoxy floor system, polyurethane floor system, water-based material floor system, rubber floor system, etc.

In future, GRK insists on the basis of honesty, quality and service, and strives to create safer and more comfortable synthetic ground materials for consumers.

CERTIFICATE



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Parking Area, Industrial Plants (Indoor)

Recommended Solutions:

- ➔ Acrylic
- ➔ Epoxy flat coating
- ➔ Epoxy mortar type flooring
- ➔ Epoxy micro-sand anti-slip flooring
- ➔ Low-temperature quick-drying flooring
- ➔ Epoxy water-based environmental flooring
- ➔ Carborundum wear-resistance flooring
- ➔ Concrete sealed hardener flooring

Feature:

- Easy installation, excellent wear-resistance
- Make the parking area comfortable, smooth and clean, pretty and bright
- Dustproof, wear-resistant, environmental, colorful, good decorative performance
- If the base doesn't reach the requirement to the ground water content, recommended epoxy water-based environmental material or concrete sealed hardener flooring



Functional Factory

Recommended Solutions:

- ➔ Epoxy anti-static flooring
- ➔ Epoxy fiberglass anti-corrosion flooring
- ➔ Water-based super wear-resistant PU
- ➔ Water-based PU color flakes flooring

Feature:

- Good electrical conductivity, can rapidly leak the static charge
- Anti-corrosion, resistant to weak acid and alkali
- UV resistant, can be applied outdoor or near the window, won't yellowing
- Strong wearing resistance, easy to clean and maintainance



Food / Pharmaceutical plant, Hospital

Recommended Solutions:

- ➔ Epoxy self-leveling type flooring
- ➔ Epoxy self-leveling color sand flooring
- ➔ Epoxy water-born flooring
- ➔ Water-based PU color flakes flooring
- ➔ Rubberized paint

Feature:

- Meet GMP requirement, high cleanliness, no smell during installation
- Good electrical conductivity, can rapidly leak the static charge
- Anti-corrosion, resistant to weak acid and alkali
- UV resistant, can be applied outdoor or near the window, won't yellowing
- Strong wearing resistance, easy to clean and maintainance



Gym, Sports Complex

Recommended Solutions:

- ➔ Acrylic
- ➔ Artificial Turf
- ➔ Silicon PU Coating(SPU)
- ➔ PP interlocking flooring
- ➔ PVC sheet
- ➔ Rubber Athletic Track
- ➔ Rubber EPDM flooring
- ➔ Rubber Shockpad
- ➔ Rubber Puzzle mat

Feature:

- All weather resistance, booth for indoor and outdoor
- Seamless flooring with different designs
- Better toughness, with good shock absorption effect
- Higher intensity, over 10 MPa (tensile strength)



Outdoor /Swimming pool Coating

Recommended Solutions:

- ➔ Colorful pathway anti-slip flooring
- ➔ Rubberized Paint
- ➔ Silicone PU(SPU)
- ➔ PP interlocking flooring
- ➔ Acrylic
- ➔ Oval Track

Feature:

- Wear resistance, tear resistance, UV resistance
- Good elongation, not easy to crack
- Best anti-slip adhesive, unaffected by light and rain, no fading, anti-aging
- Good anti-slip property, reduces braking distance by 35%



Children's Playground

Recommended Solutions:

- ➔ PVC sheet
- ➔ Artificial Turf
- ➔ Silicon PU Coating(SPU)
- ➔ PP interlocking flooring
- ➔ EPDM flooring
- ➔ Rubber Shockpad
- ➔ Rubber Puzzle mat

Feature:

- Non-Toxic, Non-irritating to human body, anti-mildew
- Passed ASTM 5feet test, safe flooring
- UV resistant, anti-aging, long lifespan
- Colorful with different patterns and designs



Epoxy Flat Coating



Modern factories have very high requirements for floors, such as ordinary cement floors. The dust generated in the work not only harms the health of employees, but also causes damage to precision instruments and affects the quality of products. The factory chooses different floor coating systems to meet the needs of different environments. In order to meet the above requirements, our company has developed epoxy flat coating system for indoor floors of professional industrial plants.

Application

- ★ Non-heavy load industry plants such as electronics, electrical appliances, machinery, chemical industry, medicine, textile, clothing, tobacco and other industries
- ★ Warehouses, supermarkets, parking lots or other special places, including all cement or terrazzo floors
- ★ Dust-free walls with purification requirements; ceiling painting, etc.

Performance characteristics

- The appearance is smooth and bright with various colors.
- Easy to clean and maintain
- Strong adhesion, good flexibility, impact resistance
- Excellent wear resistance
- Fast construction and economical cost

Technical Data

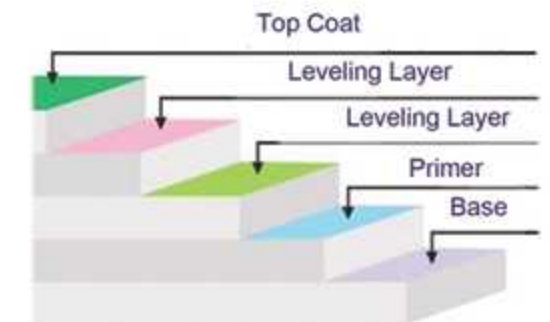
Test Item		Index
Status in drum		After mixing, even liquid
Appearance of coating		Flat, no brush marks, wrinkles pinholes, blisters and other defects
Curing time	Surface	≤4
	h, 25°C	whole system ≤24
Pencil hardness		≥3
Adhesion strength		≤level 1
Impact resistance		No cracks or peeling
Wearing resistance		≤0.030(750g/500r)/g
Tensile bond strength		≥2.0MPa
Water resistance		No blistering or peeling, slight discoloration is allowed, restored after 2 hours
Chemical resistance	15% NaOH	No blistering, no peeling, slight discoloration is allowed
	10% HCl	No blistering, no peeling, slight discoloration is allowed
	120# solvent gasoline	No blistering, no peeling, slight discoloration is allowed



Features

- Glossy & Matt Available
- Thickness: 0.5-0.8mm
- Lifespan: 5-8 years

Structure



Construction step

Structure	Application	Usage
Primer	1) Apply single component primer or 4:1 universal primer	0.15-0.2kg/m ²
	2) Apply by roller brush	
Leveling Layer	1) Middle coat materials with powder	0.3kg/m ²
	2) Apply 1-2 layers by plastering trowel	
	3) After dry, it suggest to polish	
Top coat	1) Apply 4:1 top coat or 1:1 top coat	0.25-0.3kg/m ²
	2) By roller brush for 2 layers	

Epoxy Mortar type Floor

Warehouses, underground parking lots, machinery manufacturing plant and other places require that the ground should not dust, and can withstand the rolling of various vehicles (such as automobiles, forklifts, carts, etc.) Epoxy mortar type floor is high wear resistant and pressure resistant ground, which combines with epoxy compressive and wear-resisting mortar and epoxy topcoat. It is a floor system that professionally solves the problems of ground use and protection in heavy machinery manufacturing enterprises, industrial and commercial warehouses, underground parking lots, etc.

Application

- ★ Grounds in special places such as supermarkets, halls, warehouses, car showrooms, auto repair shops, car parking lots, etc.
- ★ Suitable for the ground with high mechanical performance requirements, the ground of machinery, electronics, electrical appliances, instruments, medicine, textiles, clothing, food, tobacco and other industrial plants with certain impact requirements.

Performance characteristics

- Shock resistance, pressure resistance, good mechanical properties
- Dust-proof, mildew-proof, wear-resistant, good hardness
- Small shrinkage after hardening, no cracks
- Water resistance, oil resistance, acid and alkali resistance, etc.
- The appearance is smooth and bright with various colors.
- Seamless, easy to clean and maintain

Technical Data

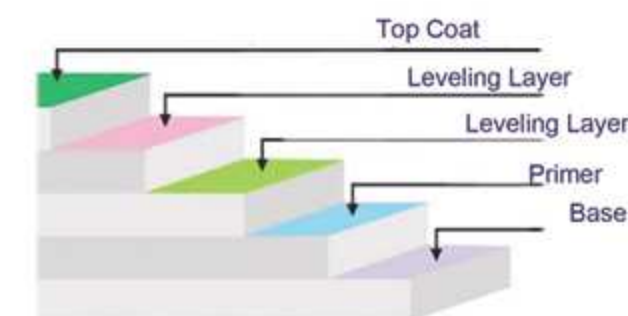
Test Item		Index
Status in drum		After mixing, even liquid
Appearance of coating		Flat, no brush marks, wrinkles pinholes, blisters and other defects
Curing time	Surface	≤6
	whole system	≤48
h, 25°C		
Pencil hardness		≥3 h
Adhesion strength		≤level 1
Impact resistance		No cracks or peeling
Wearing resistance		≤0.030(750g/500r)/g
Tensile bond strength		≥2.0MPa
Water resistance(168h)		No blistering or peeling, slight discoloration is allowed, restored after 2 hours
Chemical resistance	15% NaOH(72h)	No blistering, no peeling, slight discoloration is allowed
	10% HCl(48h)	No blistering, no peeling, slight discoloration is allowed
	120# solvent gasoline(72h)	No blistering, no peeling, slight discoloration is allowed



System Features

Glossy & Matt Available
Thickness: 1-5mm
Lifespan: 8-10 years

Structure



Construction step

Structure	Application	Usage
Primer	1) Apply single component primer or 4:1 universal primer	0.15-0.2kg/m ²
	2) Apply by roller brush	
Middle layer	1) Middle coat materials with 40-100 mesh silica sand	0.7kg/m ² /mm
	2) Apply 1-2 layers by plastering trowel	
Polish		
Leveling Layer	1) Middle coat materials with powder	0.2-0.3kg/m ²
	2) Apply 1-2 layers by plastering trowel	
Top coat	1) Apply 4:1 top coat	0.25-0.3kg/m ²
	2) By roller brush for 2 layers	

Epoxy Micro-sand anti-slip Floor

Epoxy micro-sand anti-slip floor is two component, roll-coating high performance thin-coated epoxy floor paint, which is composed of epoxy resin and modified amine curing agent and imported spherical filler. Because of the stress concentration of the spherical particles, the occurrence of destructive cracks can be overcome by filling the material, as well as the spherical surface is more favorable for the external force to be uniformly transmitted to the surrounding substrate. Thus, the mechanical properties of the material are improved, the wear resistance is greatly improved, and the anti-skid effect is very good.

Application

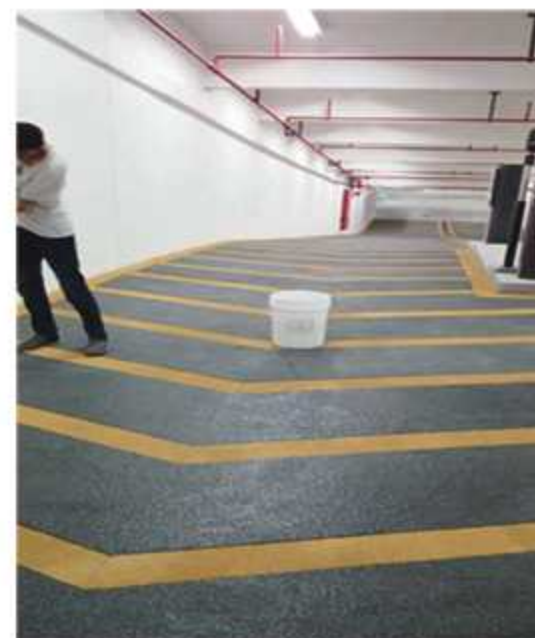
- ★ Special places with anti-skid requirements such as supermarkets, lobbies, warehouses, automobile exhibition halls, automobile repair factories, parking lots, etc.
- ★ Areas requiring high mechanical properties, with a certain impact of machinery, electronics, electrical appliances, instrumentation, medicine, textiles, clothing, food, tobacco and other enterprise plant floor

Performance characteristics

- The surface particles have uniform fineness, small fluctuation, high resistance and good anti-skid performance.
- Reasonable structure, smooth, comfortable, no vibration, low noise, beautiful and anti-skid
- Compression resistance, wear resistance, impact resistance, long service life
- Firmly bonded to the base layer, seamless surface, not easy to peel off or crack
- Good drainage performance, no pollution, reduce or even eliminate splashing water and water film, increase driving safety in rainy days

Technical Data

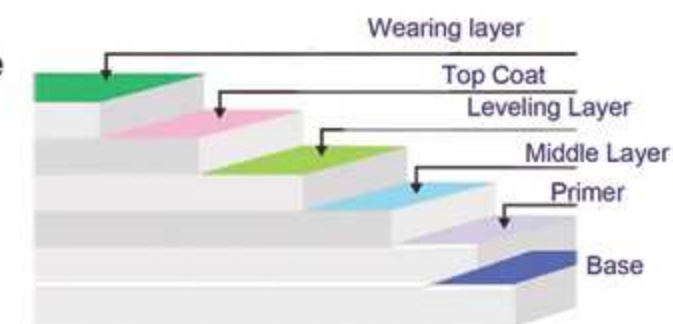
Structure	Application	Usage
Primer	1) Apply 4:1 universal primer	0.15-0.2kg/m ²
	2) Apply by roller brush	
Middle layer	1) Middle coat materials with 40-100mesh silica sand	0.7kg/m ² /mm
	2) Apply 1-2layers by plastering trowel	
	3) After dry, it suggest to polish	
Polish		
Leveling Layer	1) Middle coat materials with powder	0.2-0.3kg/m ²
	2) Apply 1-2layers by plastering trowel	
Top coat	1) Apply 4:1 top coat	0.25-0.3kg/m ²
	2) By roller brush for 2layers	
Wearing layer	1) Apply Non-slip top coat	0.1kg/m ²
	2) By roller brush	



System Features

The top coat and wearing coat no need add any sand
 Thickness: 1-5mm
 Lifespan: 8-10years

Structure



Construction step

Structure	Application	Usage
Primer	1) Apply 4:1 universal primer	0.15-0.2kg/m ²
	2) Apply by roller brush	
Middle layer	1) Middle coat materials with 40-100mesh silica sand	0.7kg/m ² /mm
	2) Apply 1-2layers by plastering trowel	
	3) After dry, it suggest to polish	
Polish		
Leveling Layer	1) Middle coat materials with powder	0.2-0.3kg/m ²
	2) Apply 1-2layers by plastering trowel	
Top coat	1) Apply 4:1 top coat	0.25-0.3kg/m ²
	2) By roller brush for 2layers	
Wearing layer	1) Apply Non-slip top coat	0.1kg/m ²
	2) By roller brush	

Epoxy Water-based environmental Floor



Epoxy water-based environmental floor uses special epoxy resin and special water curing agent, with special processing technology and emulsification technology, developed a water-borne epoxy flooring coating. The waterproof and breathable function of the system greatly enhances the applicability of the system to the wet base. It is an ideal choice for all places where the epoxy floor coating system is needed while the base is wet and non-waterproof, but with high cleanliness requirement at the same time.

Application

- ★ Ground of garment, tobacco, food and other industrial plants.
- ★ Grounds with vapor, seepage and moisture below the first floor (including basement), such as supermarkets, parking lots, canteens, restaurants, warehouses, etc.

Performance characteristics

- Wear resistance, good hardness
- Environmental Protection, Dust-proof, Mildew-proof
- Seamless, easy to clean
- Water resistance, oil resistance, acid and alkali resistance and other general chemical resistance
- Curing property is less affected by temperature and humidity, and has better bonding strength to wet surface.

Technical Data

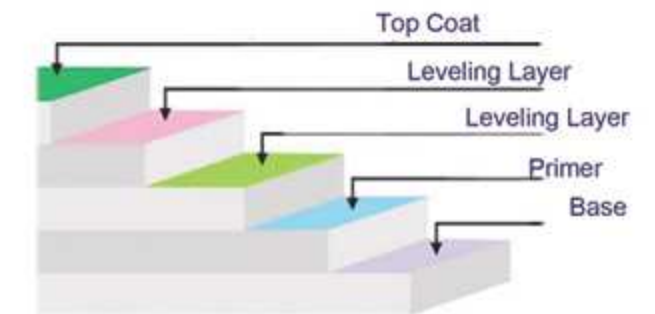
Test Item	Index	
Status in drum	After mixing, even liquid	
Appearance of coating	Flat, no brush marks, wrinkles, pinholes, blisters and other defects	
Curing time h, 25°C	Surface	≤8
	whole system	≤48
Pencil hardness	≥3	
Adhesion strength	≤level 1	
Impact resistance	No cracks or peeling	
Wearing resistance	≤0.060(750g/500r)/g	
Antiskid (dry friction coefficient)	≥0.50	
Water resistance(168h)	No blistering or peeling, slight discoloration is allowed, restored after 2 hours	
Chemical resistance	15% NaOH(72h)	No blistering, no peeling, slight discoloration is allowed
	10% HCl(48h)	No blistering, no peeling, slight discoloration is allowed
	120# solvent gasoline(72h)	No blistering, no peeling, slight discoloration is allowed



System Features

Water-borne, solid, bright
 Thickness: 0.3-3mm
 Lifespan: 5-10 years

Structure



Construction step

Structure	Application	Usage
Primer	1) Apply water-borne primer	0.15-0.2kg/m ²
	2) Apply by roller brush	
Middle layer	1) water-borne primer materials with 40-100mesh silica sand	0.6kg/m ² /mm
	2) Apply 1-2 layers by plastering trowel	
Polish		
Leveling Layer	1) water-borne middle coat materials with powder	0.2-0.3kg/m ²
	2) Apply 1-2 layers by plastering trowel	
Top coat	1) Apply water-borne top coat	0.25-0.3kg/m ²
	2) By roller brush for 2 layers	

Epoxy Anti-static Floor

In modern electronic enterprises and computer manufacturing enterprises, the agglomeration of static electricity will seriously affect the quality of electronic products and the normal work of various precision instruments. In flammable and explosive chemical enterprises, electrostatic sparks caused by electrostatic aggregation may even directly cause combustion, explosion and other adverse accidents. Our company has developed epoxy anti-static floor system coating for this purpose. In addition to its smooth, tough, wear-resistant and chemical-resistant properties, it can effectively prevent static electricity from gathering and release static electricity from foreign objects through conduction and dissipation. It is an ideal floor painting system for various electronic factory, computer manufacturing factory and explosion-proof workshop of chemical industry enterprises.

Application

- ★ Grounds for Chemical, Powder, Computer Room, Control Center, Oil Tank, etc which needs anti-static
- ★ Suitable for the ground of Computer, Electronics, Microelectronics, Telecommunications, Communications, Printing, Precision Instrument Manufacturing, Instrument Manufacturing, Precision Machinery Manufacturing and other Enterprise

Performance characteristics

- Durable antistatic effect
- Quick leakage of static charge
- All excellent functions of epoxy mortar floor

Technical Data

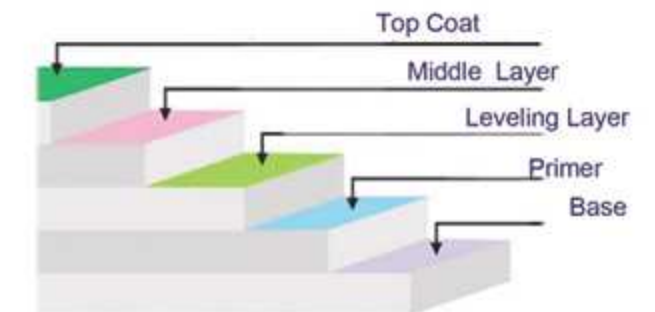
Test Item		Index
Status in drum		After mixing, even liquid
Appearance of coating		Flat, no brush marks, wrinkles, pinholes, blisters and other defects
Curing time h, 25°C	Surface	≤6
	whole system	≤24
Pencil hardness		≥3
Adhesion strength		≤level 1
Impact resistance(40kg.cm)		Pass
Flexibility/mm		≤3
Wearing resistance		≤0.030(750g/500r)/g
Surface resistance, Ω		10 ⁶ -10 ⁹
Volume resistance, Ω		10 ⁶ -10 ⁹
Water resistance (48h)		No blistering and peeling, allowed little larnish, restored after 2 hours
Chemical resistance	10% NaOH, 48h	the paint is good, allowed little larnish
	10% HCl, 48h	the paint is good, allowed little larnish



System Features

Solid color, bright or matte
 Thickness: 1 - 5mm.
 Lifespan: 10-15years

Structure



Construction step

Structure	Application	Usage
Primer	1) Apply anti-static primer	0.15-0.2kg/m ²
	2) Apply by roller brush	
Stick Conductive copper foil, it recommended 2X2m		
Middle layer	1) Anti-static middle coat materials with 40-150 mesh silica sand	0.7kg/m ² /mm
	2) Apply 1-2 layers by plastering trowel	
Polish		
Leveling Layer	1) Anti-static middle coat materials with powder	0.2-0.3kg/m ²
	2) Apply 1-2 layers by plastering trowel	
Top coat	1) Apply Anti-static top coat	0.25-0.3kg/m ²
	2) By roller brush	

Epoxy Anti-Corrosion Floor

With the rapid development of economy, the demand for petroleum products has been increasing. From the transportation of crude oil, natural gas and other petrochemical products, storage transit, pipeline transportation, refining production to the storage of finished oil, steel structure devices such as tanks, pipelines, production lines need to be built, and these devices need anticorrosive coatings.

Application

- ★ Long-term anticorrosion of light industrial products, OEM tanks, marine equipment, transportation pipelines, electrolytic cells, etc.
- ★ Cement floors requiring enhanced mechanical strength or anti-acid, alkali-chemical-solvent-corroded floors and drainage ditches, and surface of alkali pools

Performance characteristics

- Strong acid and alkali resistance
- Strong bonding, tensile crack resistance
- Increasing thermal deformation temperature and reducing thermal impact strength
- Especially, it can improve the strength and elasticity of foundation.

Technical Data

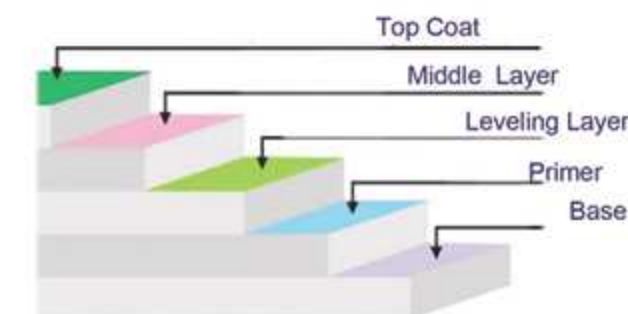
Test Item		Index
Status in drum		After mixing, even liquid
Appearance of coating		Flat, no brush marks, wrinkles pinholes, blisters and other defects
Curing time	Surface	≤6
	Whole system	≤24
h, 25°C		
Pencil hardness		≥3
Impact resistance		No cracks or peeling
Wearing resistance		≤0.030(750g/500r)/g
Bending strength		≥230MPa
Tensile strength		≥100MPa
Contraction percentage %		≥0.2
30% H ₂ SO ₄ (72h)		No blistering, no peeling, slight discoloration is allowed
30% HC1(72h)		No blistering, no peeling, slight discoloration is allowed
10% NaOH(72h)		No blistering, no peeling, slight discoloration is allowed



System Features

Water-borne, solid color, bright
Thickness: 0.3-3mm
Lifespan: 3-5 years

Structure



Construction step

Structure	Application	Usage
Primer	1) Apply anti-corrosion primer 2) Apply by roller brush	0.15-0.2kg/m ²
lay the fiberglass		
Middle layer	1) Anti-corrosion middle coat materials with 40-100 mesh silica sand 2) Apply 1-2 layers by plastering trowel	0.6kg/m ² /mm
Polish		
Leveling Layer	1) Anti-corrosion middle coat materials with powder 2) Apply 1-2 layers by plastering trowel	0.2-0.3kg/m ²
Top coat	1) Apply anti-corrosion top coat 2) By roller brush or spray	0.25-0.3kg/m ² /mm

Epoxy Self-leveling type Flooring

A flooring coating system for GMP high-cleanliness places was developed. It has the advantages of environmental protection, high gloss, one-time film forming thickness, strong and wear-resistant paint film, etc. It is an ideal floor for electronic and pharmaceutical factory buildings with high cleanliness requirements.

Application

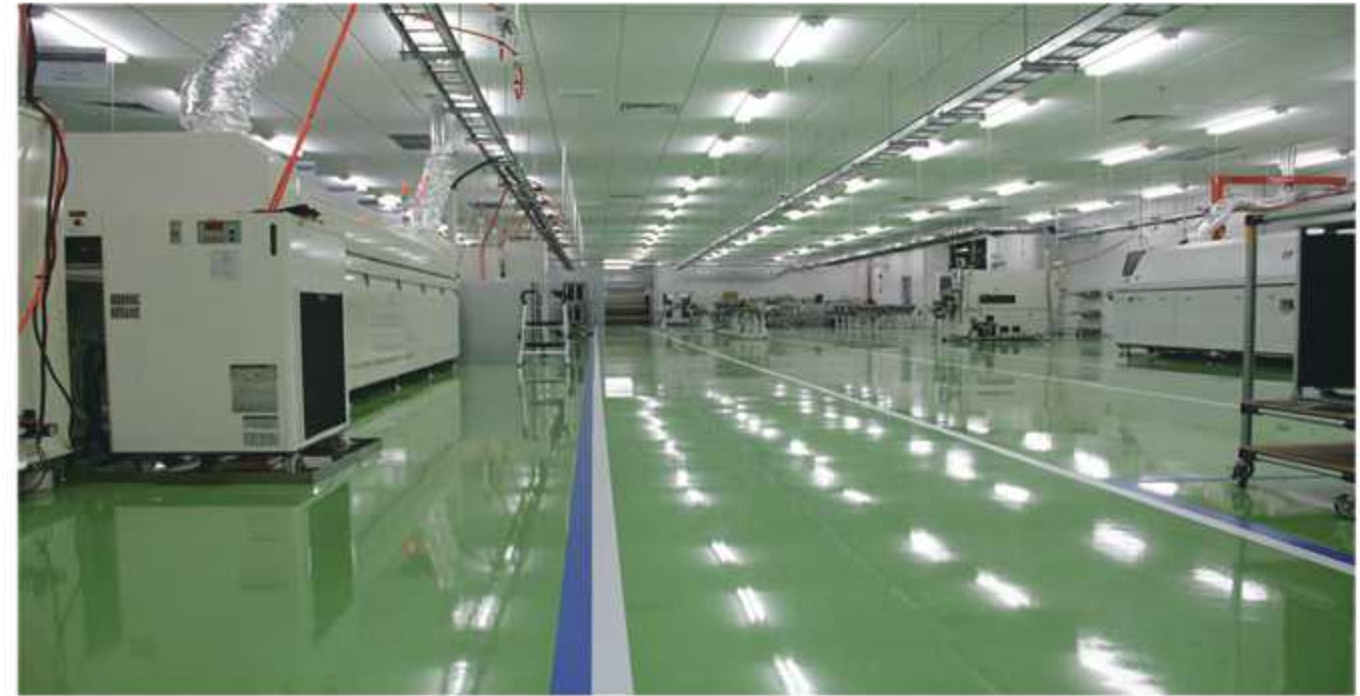
- ★ Highly specialized and dust-free sterile space for aerospace, aviation, etc.
- ★ GMP Pharmaceutical Factory, Hospital, Blood Products and Other Dustless Sterile Room, Precision Machinery, Microelectronics Manufacturing Factory, Mechanical and Chemical Comprehensive Performance Requirements areas

Performance characteristics

- Smooth surface, beautiful, mirror effect
- Solvent-free, odorless, pollution-free, non-toxic
- Resistance to acid, alkali and chemicals
- Good resistance to moisture, salt fog, oil and organic solvents
- Wear resistance, pressure resistance, impact resistance, high temperature resistance, waterproof, with little elasticity

Technical Data

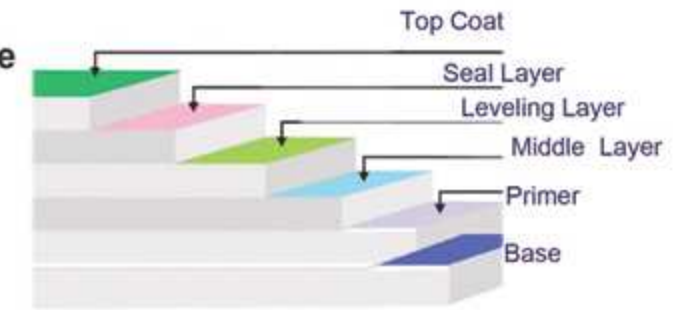
Test Item		Index
Status in drum		After mixing, even liquid
Appearance of coating		Flat, no brush marks, wrinkles, pinholes, blisters and other defects
Curing time	Surface	≤6
	h, 25°C	whole system
Shore A hardness		≥80
Fluidity/mm		≥140
Impact resistance		No cracks or peeling
Wearing resistance		≤0.030(750g/500r)/g
Tensile bond strength		≥2.0MPa
Water resistance(168h)		No blistering or peeling, slight discoloration is allowed, restored after 2 hours
Chemical resistance	15% NaOH(72h)	No blistering, no peeling, slight discoloration is allowed
	10% HCl(48h)	No blistering, no peeling, slight discoloration is allowed
	120# solvent gasoline(72h)	No blistering, no peeling, slight discoloration is allowed



System Features

Glossy & Matt Available.
 Thickness: 1 - 5mm.
 Lifespan: 10 - 15 years.
 Good cleanliness, GMP standard.

Structure



Construction step

Structure	Application	Usage
Primer	1) Apply 4:1 Universal Primer	0.15-0.2kg/m ²
	2) Apply by roller brush	
Middle layer	1) Middle coat materials with 40-100 mesh silica sand	0.7kg/m ² /mm
	2) Apply 1-2 layers by plastering trowel	
Polish		
Leveling Layer	1) Middle coat materials with powder	0.2-0.3kg/m ²
	2) Apply 1-2 layers by plastering trowel	
Seal Layer	1) 4:1 Top coat materials by plastering trowel	0.1-0.2kg/m ²
Top coat	1) Apply self-leveling top coat	1.4kg/m ² /mm
	2) By notch trowel with defoaming roller	

Epoxy Self-leveling colour sand Flooring



Self-leveling colour sand floor is composed of light coloured sand, epoxy resin and high performance curing agent. Freely match the paint itself with one or more lightweight sands of different colors, to form decorative colors and patterns. It's a new synthetic floor integration with elegant and seamless decorative. Especially suitable for airports, large shopping malls, business buildings, convention centers, offices, etc.

Application

- ★ Sterile clean area: hospital, pharmaceutical industry, food industry, research laboratory
- ★ High-end industrial sector: tobacco industry, aircraft manufacturing, electronic communications industry
- ★ Machinery Manufacturing Industry: Motor Vehicle Industry, Automobile Industry, Digital Machine Tool Industry
- ★ Public places: shopping malls, exhibition halls, subway stations, airports, office buildings

Performance characteristics

- Highly clean, seamless connection, to meet GMP testing requirements
- Excellent wear resistance, weak acid and alkali resistance, can inhibit mould growth
- Good scratch resistance, Non-slip resistance, heavy pressure resistance, impact resistance
- Free color matching, soft color, good decorative effect
- Meet the personalized design and show the nobleness

Technical Data

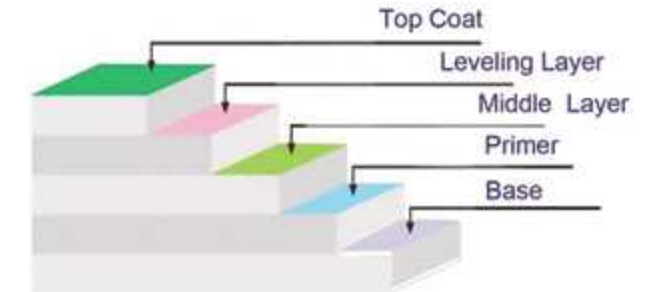
Test Item	Index	
Status in drum	After mixing, even liquid	
Appearance of coating	Flat, no brush marks, wrinkles	
	pinholes, blisters and other defects	
Curing time	Surface	4
	whole system	20
Shore A hardness	85.4	
Tensile bond strength	Normal	5.2MPa
	After water	4.2MPa
Compressive strength	68MPa	
Impact resistance Level 2	(1000g steel ball fall down from 100cm) the coating is good, no peeling	
Antiskid (dry friction coefficient)	0.62	
Water resistance (168h)	No blistering, no peeling, slight discoloration is allowed	
Chemical resistance	20% NaOH (72h)	No blistering, no peeling, slight discoloration is allowed
	10% HCl (48h)	No blistering, no peeling, slight discoloration is allowed
	120# solvent gasoline (72h)	No blistering, no peeling, slight discoloration is allowed



System Features

Solvent-free, environmentally friendly.
 Thickness: 3 - 5mm.
 Lifespan: more than 10 years.
 Soft and comfortable colors.

Structure



Construction step

Structure	Application	Usage
Primer	1) Apply 4:1 universal primer	0.15-0.2kg/m ²
	2) Apply by roller brush	
Middle layer	1) Self-leveling middle coat materials with 40-100 mesh silica sand	0.25-0.5kg/m ² /mm
	2) Apply 1-2 layers by plastering trowel	
Polish		
Leveling Layer	1) Self-leveling middle coat materials with powder	0.15-0.2kg/m ²
	2) Apply 1-2 layers by plastering trowel	
Top coat	1) Apply Self-leveling color sand top coat	3-3.5kg/m ²
	2) By notch trowel with defoaming roller	

Low-temperature quick-drying Flooring

Low-temperature quick-drying floor paint is a two-component, roll-on, seamless high-solid solvent-based floor coating consisting of a composite resin and polyurethane prepolymer. Especially suitable for low temperature construction coating in winter or rapid renovation..

Application

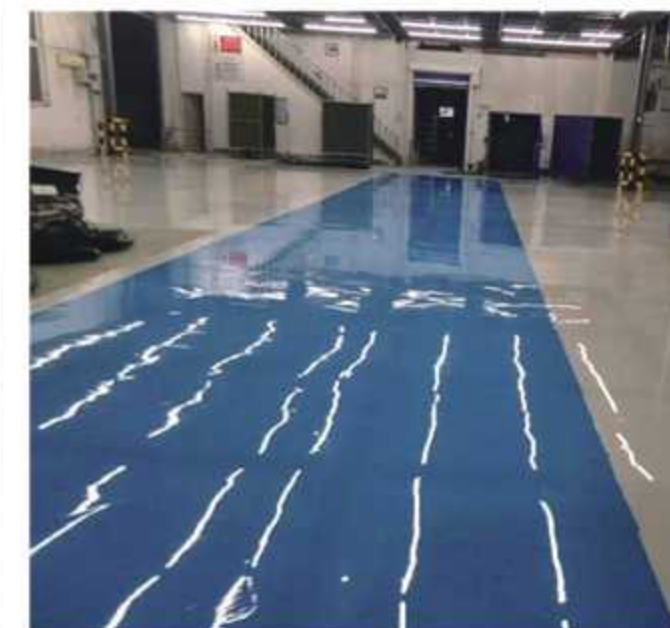
★ It is suitable for workshops and offices, shopping malls, warehouses and underground parking lots in various industries, especially for indoor floors where hardness and wear resistance are strict and rapid construction is required.

Performance characteristics

- Excellent wear resistance and scratch resistance.
- Excellent curing performance at low temperature, can be applied above zero degrees Celsius.
- Quick drying, according to different temperature and humidity, can be recoated after 1-2h, can be put into use after 4-8h.
- Particularly suitable for resurface floors requiring short duration.
- Good covering property.
- High solid content, less volatilization, higher coating thickness at one construction.

Technical Data

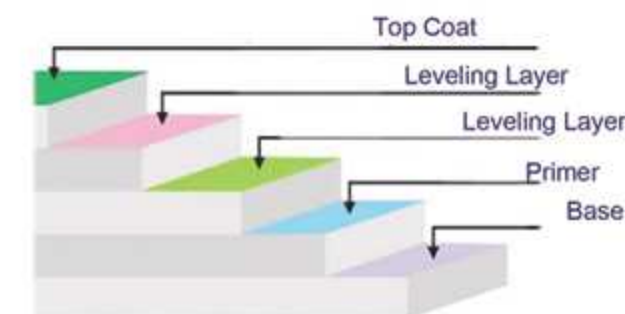
Test Item	Index	
Status in drum	After mixing, even liquid	
Curing time	Surface	≤2
	whole system	≤8
h, 25°C		
Solid content (Mixture)	≥80%	
Adhesion strength	≤level 1	
Pencil hardness	≥3	
Flexibility/mm	≤1	
Antiskid (dry friction coefficient)	≥0.50	
Impact resistance	No cracks or peeling	
Wearing resistance	≤0.030(750g/500r)/g	
Tensile bond strength	≥2.0MPa	
Water resistance (168h)	No blistering or peeling, slight discoloration is allowed, restored after 2 hours	
Chemical resistance	15% NaOH, 72h	No blistering, no peeling, slight discoloration is allowed
	10% HC1, 72h	No blistering, no peeling, slight discoloration is allowed
	120# solvent gasoline, 48h	No blistering, no peeling, slight discoloration is allowed



System Features

Construction above 0°C, normal reaction
 0°C-35°C fast curing, shortening construction time
 Lifespan: 8-10 years

Structure



Notes:

- It suggest to add 3% thinner
- When humidity ≥85%, wet ground, it don't suggest application
- Cannot be thick coated, usage: 0.1-0.15kg/m²/layer, once the usage is exceeded, or the construction is uneven, it will happen bubbles.
- Application time within 15mins.
- Not suitable for direct sunlight and high UV intensity place.
- After mixed, reference of curing time at different temperatures, continuation of construction over time will lead to poor leveling and poor physical properties of coatings.

Temperature	0-10°C	10-20°C	20-30°C	30-35°C	35-40°C	40°C
Curing time	60mins	50mins	40mins	30mins	25mins	No application

Water-based PU colour flakes Flooring

A seamless, non-elastic, stain-resistant polyurethane floor is injected into the color flakes pattern to provide a flexible polyurethane flooring system with a variety of patterns. It is used in places with high cleanliness and high decorative demand, such as hospitals, schools, commercial places, etc. The floor is comfortable, and the colors are diverse and colorful. The color and flakes color can be customized according to the customer's individual requirements.



Application

- ★ Professional medical floor of pharmaceutical and medical industry with clean requirements.
- ★ Hospital, school, business place.

Performance characteristics

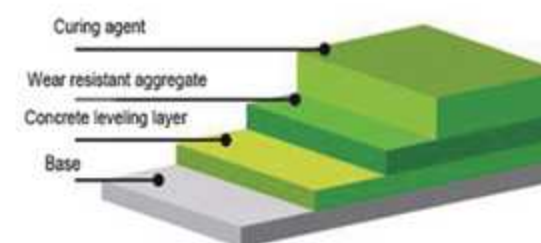
- Comfort: excellent weather resistance, beautiful and comfortable.
- Environmental friendly: water as a dispersion medium, no environmental pollution, no fire hazard, high density, easy to clean, impact resistant, no cracking.
- Flexibility: Crystallization of German polymer material chemistry, excellent wear resistance, flexibility, scratch resistance, chemical and physical damage resistance.
- High temperature resistance: the completed floor system can withstand hot water flushing and intermittent high temperature steam purge.
- Breathability: excellent anti-corrosion, acid and alkali resistance, fire resistance, oil resistance and good breathability. Resistant to black marks of tires and shoes.
- Thickness: 2 - 5mm. lifespan: 8 - 10 years.

Carborundum wear-resistance Flooring

According to the aggregates, it is divided into metal and non-metal wear-resistant hardened aggregates. They are composed of metal mineral aggregates of certain particle grade or extremely wear-resistant non-ferrous metal aggregates and special additives. It's evenly spread on the concrete surface in the initial setting stage. After solidification, it forms a dense and super hardened surface layer with the concrete floor. It is resistant to pressure, impact, abrasion and has high density and coloration. Construction with concrete base to shorten the construction period without the need for construction mortar leveling layer.



Structure



Technical Data

Test Item	Index	
Product	Non-metal hardener	Metal hardener
Appearance of coating	After mixing, even liquid	
Flexural strength(28d)MPa	≥11.5	≥13.5
Compressive strength(28d)Mpa	≥80	≥90
Wear ratio	≥300%	≥350%
Surface hardness (indentation diameter)	≤3.3mm	≤3.1 mm

Application

- ★ Used in industrial plants, warehouses, supermarkets, heavy-duty machinery factories, machine repair plants, parking lots, cargo storage areas, squares, etc

Performance characteristics

- Easy to construct, directly spread on fresh concrete, saving time and labor, no need to apply mortar surface layer. High wear resistance, reduce dust, improve impact resistance, improve oil and grease resistance.

Concrete Sealed Hardener Flooring

What is concrete sealed hardener?

Through the effective penetration of 5-8mm, the compounds penetrated into the concrete and the semi-hydrated cement, free calcium, silicon oxide and other substances contained in the condensed concrete undergo a series of complicated chemical reactions to produce hard substances. The compound will eventually increase the compactness of the concrete surface layer, thereby improving the strength, hardness, wear resistance, impermeability and other indicators of the concrete surface layer.

How it work?

End product of the complex chemical reaction will block and solidify the structural pores of the concrete, and the increased strength leads to increased surface hardness, and the improvement of the compactness will bring about the improvement of the impermeability. Reducing the path of moisture flow, that is, reducing the intrusion of harmful substances, and thereby greatly enhancing the erosion resistance of concrete against chemical substances.



Untreated concrete (enlarged 4000 times)

Water, oil and other dirt penetrate into untreated concrete and stone structures through natural holes in concrete or stone structures.



Treated concrete (enlarged 4000 times)

Permanently and effectively seal concrete and stone structures, that is, chemically reacting concrete or stone structures into solid and dense entities

Application

Industrial floor, workshop floor, supermarket floor, concrete parking lot, airport runway, all places with concrete or cement mortar as the base.

Performance characteristics

- Lifespan: 15 - 20 years.
- Sealed, dustproof, hardened and wear resistant.
- Inhibiting the erosion of chemicals.
- Permanent shine. As time goes on, the treated concrete floor will have a charming waxy luster.
- Good weathering resistance.
- Convenient construction, environmentally friendly process (colorless, odorless).
- Reduce maintenance costs, one construction, and permanent protection.



Technical Data

Test Item	Index	Test Result
Flexural Strength 28d,MPa	GB9966.1-2001	≥11.5
	GB9966.2-2001	
	GB/T16925-1997	
Compressive Strength 28d,MPa	GB9966.1-2001	≥80.0
	GB9966.2-2001	
	GB/T16925-1997	
Wear resistance ratio %	GB9966.1-2001	≥300
	GB9966.2-2001	
	GB/T16925-1997	
Mohs hardness	GB9966.1-2001	≥5
	GB9966.2-2001	
	GB/T16925-1997	

Rubberized Paint (Outdoor/Swimming pool)

Used for protection and decoration of outdoor concrete or asphalt floor, with strong adhesion, high wear resistance, anti-aging, low VOC, water resistance and other properties.

Application

- ★ Outdoor community roads and park roads.
- ★ Outdoor parking lot floor, outdoor square floor, outdoor sports area.
- ★ Roof, wall, sports stands, asphalt pavement renovation.
- ★ Swimming pool ,Halipad

Performance characteristics

- Yellowing resistance, superior weather resistance.
- Excellent wear and scratch resistance.
- Excellent water resistance and high temperature resistance.
- High hardness while maintaining good flexibility.
- Excellent aging resistance can maintain the original color and luster for a long time.

Technical Data

Test Item	Index	
Status in drum	After mixing,even liquid	
Appearance of coating	Flat,no brush marks,wrinkles	
	pinholes,blisters and other defects	
Curing time h,25°C	Surface	≤2
	whole system	≤8
Pencil hardness	≥3	
Adhesion strength	≤level 1	
Impact resistance(500cmkg)	≥50	
Wearing resistance	≤0.030(750g/500r)/g	
Antiskid (dry friction coefficient)	≥0.50	
Water resistance(168h)	No blistering,no peeling,slight discoloration is allowed	
Alkali resistance	20% NaOH(72h)	No blistering,no peeling,slight discoloration is allowed
Acid resistance	10%H ₂ SO ₄ (72h)	No blistering,no peeling,slight discoloration is allowed
Gasoline resistant	120# solvent gasoline(72h)	No blistering,no peeling,slight discoloration is allowed



System Features

Bright or matte light
 Thickness: 0.3 - 3mm.
 Lifespan: 10 - 20 years



Construction step

Structure	Application	Usage
Primer	1)Apply primer materials	0.15-0.3kg/m ²
	2)Apply by roller brush	
Middle layer	1)middle coat materials with 40-100mesh silica sand	0.6kg/m ² /mm (dispensable)
	2)Apply 1-2layers by plastering trowel	
Polish		
Leveling Layer	1) middle coat materials with powder	0.2-0.3kg/m ² (dispensable)
	2)Apply 1-2layers by plastering trowel	
Top coat	1)Apply top coat	0.3-0.5kg/m ²
	2)By roller brush for 2layers	

Silicon PU (SPU) Flooring

Silicon PU (SPU) is one of the common sports flooring materials. It is suitable for indoor and outdoor sports field. Double-layer structure, high rebound value, can protect athletes' joints, reduce the risk of ligament injury.

Application

★ Basketball court, Tennis court, volleyball court, badminton court, multipurpose court.

Performance characteristics

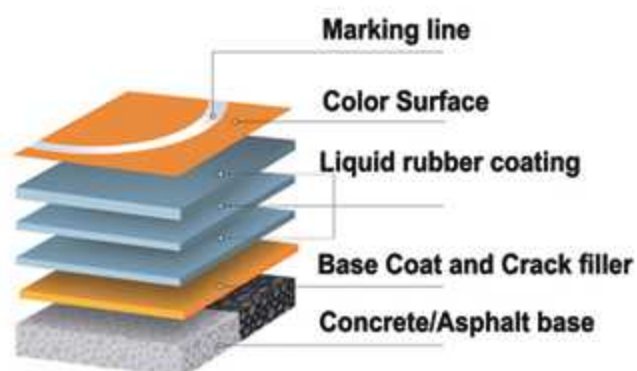
- Stable uniform rebound
- Effective Cushioning and shock absorption
- Excellent anti-skid resistance
- Comfortable shifting movement

System Features

Thickness: ≥1 mm.

Lifespan: 5-8 years

Structure



Technical Data

Test Item	Index	
Status in drum	After mixing, even liquid	
Curing time	Surface	≤8
	whole system	≤24
Shore A hardness	40-50	
Adhesion strength	≤level 1	
Ball rebounded	99.10%	
Shock Absorption	25.1	
Flexibility at low temperature	No crack	
Tear resistance	17N/mm	
Friction	105	
Tensile strength	3.2Mpa	
Elongations at Break	614%	

Construction step

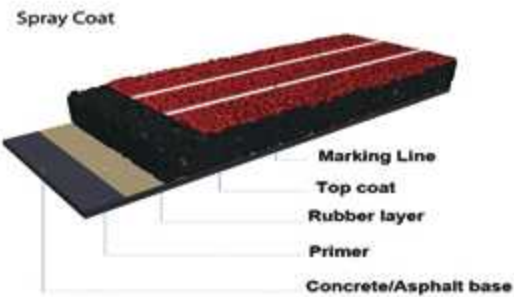
Structure	Application	Usage
Primer	1) Apply primer materials	0.15-0.2kg/m ²
	2) Apply by roller brush	
Middle layer	1) middle coat materials with resin	1.2-1.5kg/m ² /mm
	2) Apply by rubber squeegee	
Polish		
Top coat	1) Apply top coat	0.2-0.3kg/m ²
	2) By roller brush/spray for 2 layers	

Rubber Athletic Track

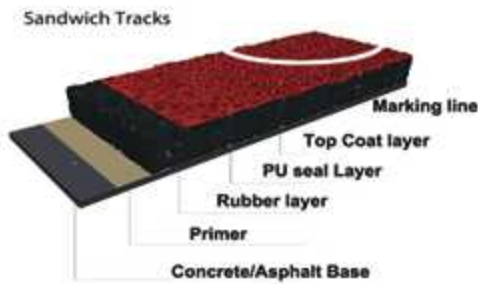
Rubber Athletic Track is a rubberized artificial running surface for track and field athletics. Consists of polyurethane, binder, rubber granule (EPDM, PU granule, SBR), pigments, and fillers. There including Permeable Athletic track (Spray coating), Sandwich track, full PU track, and prefabricated rubber track.

Application

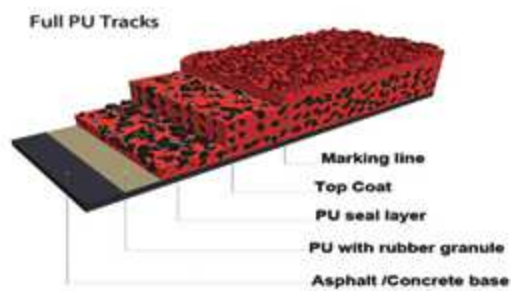
★ Sports competitions track, school and kindergarten playground, park recreation path, sports complex/stadium



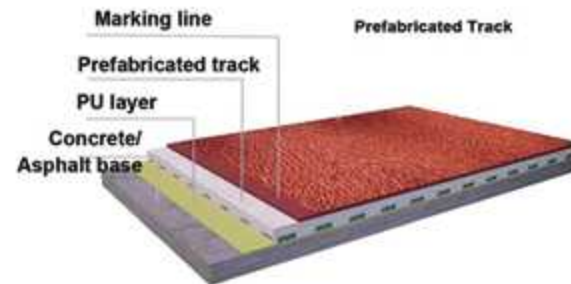
- ⊙ Water permeability
- ⊙ No bubbling occurs
- ⊙ Easy Application and maintenance



- ⊙ Good flatness
- ⊙ Impact resistance, appropriate elastic
- ⊙ UV resistance with beautiful appearance



- ⊙ High strength and wear resistance
- ⊙ Anti-skid, good elasticity
- ⊙ Absorbable vibration, shock proof and sound insulation



- ⊙ Easy application and maintenance.
- ⊙ Multi-color effects
- ⊙ Safety and environmental protection

Rubber EPDM Floor

Rubber EPDM flooring is made of EPDM or SBR granule with a certain proportion of single component glue directly paved and compacted on the concrete or asphalt base. There is a distinction between single-layer material and double-layer material. The single-layer material is directly paved by mixing single-component glue and EPDM granule. The bottom of the double-layer structure is a buffer layer made of SBR granule and binder, and the surface layer is a rubber layer composed of EPDM granule and adhesives.

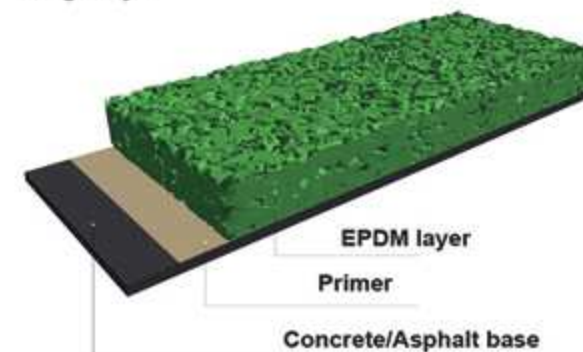
Application

★ Kindergarten ground
★ Sports flooring: basketball court, multipurpose court, volleyball court, badminton court

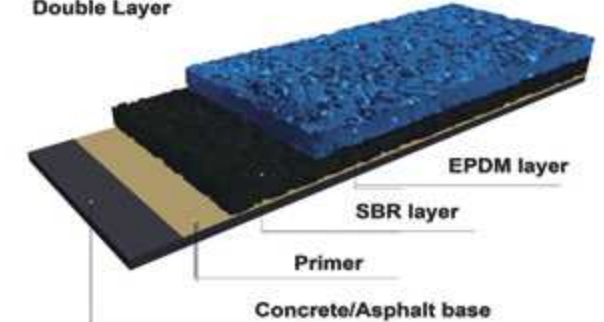


Structure

Single layer



Double Layer

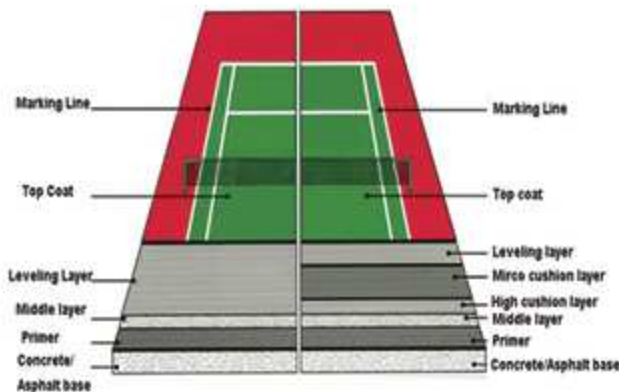


Acrylic Coating

Acrylic flooring includes hard floor and elastic floor. It is high performance flooring coating. Suitable for indoor and outdoor.

Application

★ Tennis court, Basketball court, volleyball court, badminton court, multipurpose court.



Performance characteristics

- ⊙ Non-toxic, Durable color
- ⊙ Easy maintenance
- ⊙ Economic type
- ⊙ Can cover small cracks caused by the foundation
- ⊙ Excellent wear resistance
- ⊙ UV resistance

Colorful Pathway Anti-slip Flooring

Color greenway anti-slip floor is an understanding material for non-slip coating on traffic surfaces, it can be used on the surface of asphalt, concrete and gravel. It has good wear resistance and adhesion. It can improve the strength of the base and has the characteristics of oil resistance and corrosion resistance.

Application

★ Roads, greenways, pathways, sidewalk passages, outdoor plazas, outdoor parking lots, etc.



Performance characteristics

- ⊙ Slip resistance: good anti-slip performance, reducing brake distance by 35%.
- ⊙ Weather resistance: unaffected by light or rain, no fading, anti-aging.
- ⊙ Decorative: use professional ceramic particles, colorful, decorative property.
- ⊙ Flame retardant: no solvent, not easy to burn, non-toxic, safe and environmentally friendly.
- ⊙ Self-cleaning: good dustproof performance, refreshing after rain, easy to clean.
- ⊙ Efficient and practical: fast curing, at normal temperature, it can be accessed after 5 hours of completion; the construction is simple and rapid.
- ⊙ Adhesion: can be applied to the ground, such as tight asphalt, cement, concrete, etc. It can also adapt to various organic and inorganic metal surfaces.
- ⊙ Crack resistance: excellent extensibility, not easy to crack.

Structure	Application	Usage
Clean the base		
Lay the pathway	1)Apply 3:1 paint	1-2kg/m ²
	2)Apply by plastering trowel	
	3)immediately pour the color sand	5kg/m ²
After 10hours, clean it ,and floating sand recovery		

PVC Sheet

PVC sports floor is a kind of sports floor specially developed for sports venues using polyvinyl chloride materials. It made by laminated with multi-layer, it has wearing layer, glass fiber layer, foam layer and printing layer.

Application

- ★ Sports Courts: basketball court, tennis court, volleyball court, badminton court, multipurpose court
- ★ Kindergarten ground
- ★ Gyms/Clubs

Performance characteristics

- Variety of color and pattern
- Thickness :3.5mm-8mm
- Roll width:1.5m,1.8m
- Roll length:15m,20m



PP Interlocking Flooring

Assembly flooring is the third generation of new sports flooring with polypropylene (PP) as the main material.

Application

- ★ Sports Courts: basketball court, tennis court, volleyball court, badminton court, multipurpose court
- ★ Kindergarten ground

Performance characteristics

- Easy installation and disassembly
- All-weather performance
- Changeable colors
- Safety and Environmental Protection



Rubber Shockpad

It is made of recycled tire rubber or synthetic EPDM with excellent underfoot comfort, absorbs walking noise and shock of training impact enough to fit for the heavy use in gym room and commercial places.

Application

- ★ Indoor and outdoor sports Courts
- ★ Sports underlay, Buffering layer
- ★ Gyms/Clubs

Performance characteristics

- Material: PU binder & rubber granule
- Variety of color
- Thickness :3mm-30mm
- Roll width: 1m, 1.25m, 1.5m
- Roll Length: Bulk or cut to length



Rubber Puzzle Mat

Rubber Puzzle mat is the perfect floor solution that is easy to install, tough and resilient enough for multiple applications. They are made of recycled tire rubber and EPDM granule. Laminated interlocking tiles are available as well to enhance shock absorption and offer much better underfoot comfort.

Application

- ★ Kindergarten ground
- ★ Gyms, Health club

Performance characteristics

- Material: PU binder & rubber granule
- Variety of color
- Thickness :4mm-30mm
- Size: 500x500 mm, 1000x1000mm



BASIC 基础要求 REQUIREMENTS

地坪涂装性能的发挥及其服务寿命,与混凝土地坪的性能和质量密切相关,其施工工艺及技术指标应该是在公司认可的技术条件下进行,建议如下:

The performance of floor coating and service life are closely related to the performance and quality of concrete floor. The construction technology and technical index of the foundation are suggested as follows:

防潮层 Water-proof layer

混凝土浇筑前应构筑防潮层,防止地下上升的潮气影响树脂地坪材料的固化甚至在使用期间破坏地坪涂层;

Before concrete pouring, water-proof layer should be constructed to prevent the moisture rising underground from affecting the curing of resin floor materials and even destroying the floor coating during use.

抗压强度 Compressive strength

最低使用C25混凝土,即混凝土地面浇筑完毕28天后抗压强度必须大于25MPa;

After 28 days of concrete ground pouring, the compressive strength must be greater than 25 Mpa (3000psi)

表面质量 Surface quality

建议一次性浇筑到设计标高,使用抹平机进行原浆抹平(不铺设找平层),地坪涂装前,混凝土地面的表面抗拉强度必须大于1.5MPa。混凝土地面应养护至28天以后,环氧自流平要求基层含水率不超过4%。

It is suggested that one-time pouring should be done to the design elevation. Use trowel leveling machine to smooth the original slurry (without leveling layer),the concrete tensile strength must be greater than 1.5MPa.New concrete should maintained 28days before painting; New asphalt base should maintained 15days before coating; the base moisture content not exceed 4%.

平整度 Flatness

地坪施工前,混凝土地面平整度应达国际要求,即2米靠尺最大公差5毫米。

Take 2m aluminum magnetic level rule and wedge feeler measure, the maximum tolerance is no more than 3mm

对混凝土质量的要求 Requirements of the concrete

1. 水灰比<0.50, 2. 塌落度<140MM ,3. 水泥含量>320KG/m³,不得渗入粉煤灰。

Water cement ratio<0.50, 2.Collapse<140mm ,3.Cement content>320kg/m³, don't allow infiltrate the flay ash

REFERENCE TOOLS



Polish machine



plastering trowel & notch trowel



Grinder machine



Electric portable drill



9 inch roller brush



Squeegee



Granule mixing machine



Man-power oaver machine



Concrete power trowel



Paver machine



Marking line machine



Spray machine