

OUP

A Reliable Coatings Supplier

FLOORING



Protective



Flooring



Application



Contents

02 About us

Industrial Floor

05 Heavyweight Industrial Floor

06 Lightweight Industrial Floor

07 Clean Workshop Floor

Car Park Floor

10 Indoor Car Parks Floor

11 Outdoor Car Parks Floor

12 Ramp Floor

Commercial, Sports and
Residence Floor

14 Flexible Floor Coatings

15 Fast Dry Floor Coatings

Functional Floor Coatings

17 Antistatic Floor Coatings

**18 Acid Alkali and Chemical
Resistant Floor Coatings**

19 Sewage Resistant Floor Coatings

20 Application of Epoxy Floor Coatings

21 Join OUP

OUP Floor Coating

Years of accumulation, comprehensive technology,
Broader product lines, more diversified solutions,
Application and field service quick and easy,
A rigorous selection of high quality products,
More environmental and functional coatings available,
More professional technology to provide our clients
with a higher cost-effective service



OUP Floor Coatings

A full range of floor coatings series produced and managed by JiangYin Osaka Paint.

Found in 1990s, JiangYin Osaka Paint Co.,Ltd. is located in Yangtze River Delta. After more than twenty years of the experience of manufacturing and developing coatings, Osaka Paint has been a well known protective coatings manufacture in China. Our professional experience of coatings and services ensures that we are able to provide the whole solution of coatings and application to our clients. Since 2004, Osaka Paint has been rated AAA-level by Jiangsu Fareast Credit Rating Company.

Osaka Paint has always focused on the research and breakthrough of protective coatings, and accumulated the pioneering technology and variety products. We own two China Invention Patents:“900-1200°C heat resistant paint”, which broke the barrier of 650°C heat resistant limitation, and innovated the pioneering 1200°C heat resistant color paint; “max 300 times of alternating cooling and heating600°C heat resistant paint” which not just improved the working life of heat resistant paint, but also provides a solution to steel factories, the properties of the paint has surpassed most of the heat and oxide resistant paint on the market.

In order to serve our floor coatings customers better, Osaka Paint has integrated its resources and founded a floor coating department, meanwhile put the floor coatings to market under the brand “OUP”. OUP offers a complete service of solution design, coatings and application.

Osaka Paint always concentrates on customer first. In order to ensure that our clients get the best coatings performance, from solution design, quality of product to after service, each step is supervised by our professional technical staffs.

Industrial Floor





Heavyweight Industrial Floor

There is at least one area in a factory workshop under high load weight, high impact and intensive abrasion. Without a proper industrial flooring system, the concrete floor is easy to be cracked and twisted, which causes expensive repairs costs and potential danger.

The lightweight industrial flooring system can't take high strength abrasion and impact, which might cause the interior damage of concrete slabs. Please consult with us in detail before you choosing any flooring systems.

Recommend Flooring System:



Applicable to the heavy load, strong abrasion and chemical corrosion areas, to deal with heavy load forklifts and trucks, no matter solid tire or air tire. Typical applications: vehicle production workshops, paper making workshops, steel workshops and large scale warehouses.

Technical Data

Item	Data	Test Condition
Anti-pressure strength	≥90MPa	GB1041
Resistance to abrasion	≤20mg	GB1768(750gf, 500N)
Walkable time	about 24 hours (25°C)	
Adhesion strength	≥2.2MPa	GB5210, with concrete
Extension strength	≥9.5MPa	GB13022
Resistance to impact	50kg.cm	GB/T1732 Topcoat
Surface hardness	≥3H	Pencil hardness
Smooth coefficients	60	Dry
Smooth coefficients	90	Watered
Gloss	≥80%	60° ∠ specular reflectance

Resistance to Chemicals (20°C, 1 month soak)

PH=1 H2SO4; HCl	No Change
20% H2SO4; HCl	Slight discoloration or gloss loss
5% NaOH	No Change
20% NaOH	Slight discoloration or gloss loss
CaOH2	Slight discoloration or gloss loss
5% ammonia	Slight discoloration or gloss loss
BaCO3	No Change
Na2CO3	No Change
CaCl2	No Change
Formaldehyde	Slight discoloration or gloss loss
Mineral oil	No Change
H2O2	Slight discoloration or gloss loss

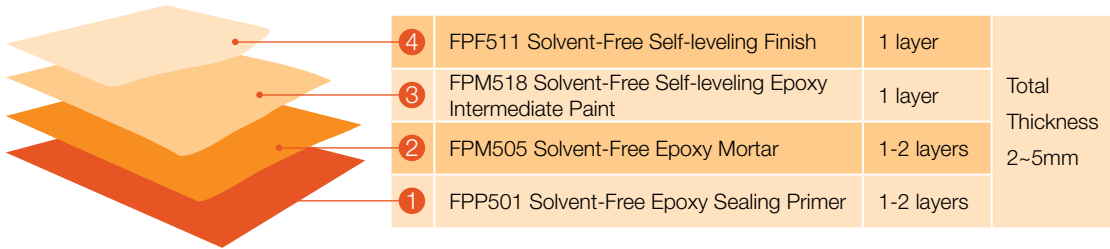
Features

- High resistance to impact
- High resistance to abrasion
- Clean and green application,
- Good adhesion with concrete base
- Chemical and liquids resistance



Lightweight Industrial Floor

Typical Flooring System:



Applicable to the regular load, abrasion and chemical corrosion areas. Typical applications: assembly workshops, mechanical equipment workshops, electronics workshops and super markets. It could afford lightweight forklifts and small trucks.

Features

- Smooth, flat and clean
- Resistance to a wide range of chemicals
- Resistance to abrasion
- Resistance to a certain degree of impact and weight

Technical Data

Item	Data	Test Condition
Anti-pressure strength	≥80MPa	GB1041
Resistance to abrasion	≤20mg	GB1768(750gf, 500N)
Walkable time	about 24 hours (25°C)	
Adhesion strength	≥2.2MPa	GB5210, with concrete
Extension strength	≥9.5MPa	GB13022
Resistance to impact	50kg.cm	GB/T1732 Topcoat
Surface hardness	≥3H	Pencil hardness
Smooth coefficients	60	Dry
Smooth coefficients	90	Watered
Gloss	≥80%	60° ∠ specular reflectance

Resistance to Chemicals (20°C, 1 month soak)

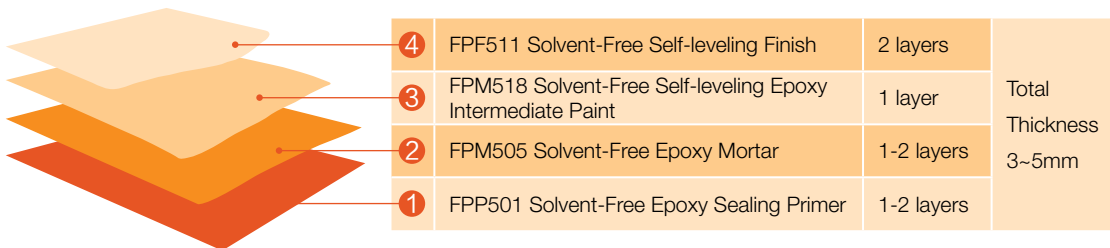
PH=1 H2SO4; HCl	No Change
20% H2SO4; HCl	Slight discoloration or gloss loss
5% NaOH	No Change
20% NaOH	Slight discoloration or gloss loss
CaOH2	Slight discoloration or gloss loss
5% ammonia	Slight discoloration or gloss loss
BaCO3	No Change
Na2CO3	No Change
CaCl2	No Change
Formaldehyde	Slight discoloration or gloss loss
Mineral oil	No Change
H2O2	Slight discoloration or gloss loss



Clean Workshop Floor

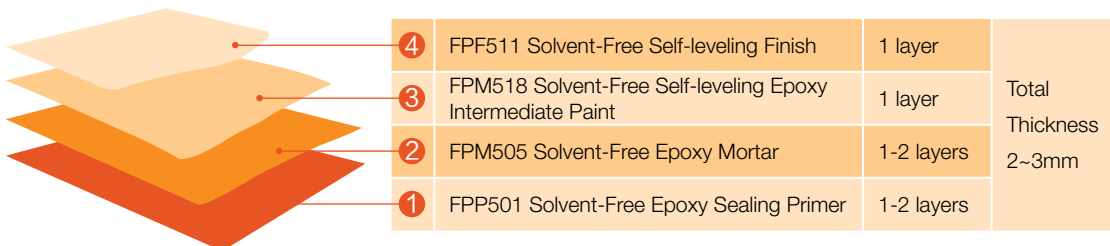
Using waterborne and solvent-free products, no VOC, no smell, and no heavy metals, specially for the workshops with strict requirements and indoor environments regulations, such as tobacco industry, pharmaceutical industry with GMP standards, food industry and so on.

Clean area flooring system:



Suitable for the clean area: GMP 100 grade, dust particle size >0.5 mm, number of dust grain <3500/m³

Control area flooring system:



Suitable for the clean area: GMP 10000 grade, dust particle size >0.5 mm, number of dust grain <35000/m³

Technical Data

Item	Data	Test Condition
Anti-pressure strength	≥80MPa	GB1041
Resistance to abrasion	≤20mg	GB1768(750gf, 500N)
Walkable time	about 24 hours (25°C)	
Adhesion strength	≥2.2MPa	GB5210, with concrete
Extension strength	≥9.5MPa	GB13022
Resistance to impact	50kg.cm	GB/T1732 Topcoat
Surface hardness	≥3H	Pencil hardness
Smooth coefficients	60	Dry
Smooth coefficients	90	Watered
Gloss	≥80%	60° ∠ specular reflectance

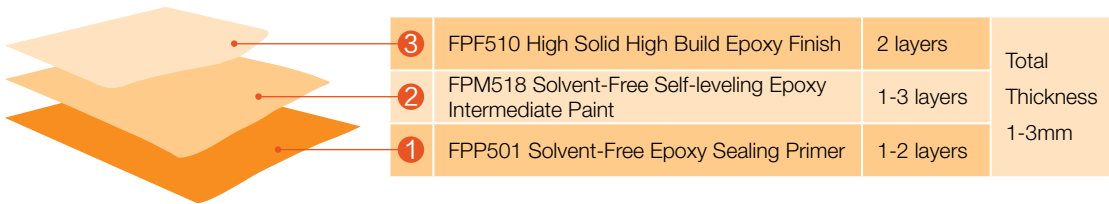
Resistance to Chemicals (20°C, 1 month soak)

PH=1 H2SO4; HCl	No Change
20% H2SO4; HCl	Slight discoloration or gloss loss
5% NaOH	No Change
20% NaOH	Slight discoloration or gloss loss
CaOH2	Slight discoloration or gloss loss
5% ammonia	Slight discoloration or gloss loss
BaCO3	No Change
Na2CO3	No Change
CaCl2	No Change
Formaldehyde	Slight discoloration or gloss loss
Mineral oil	No Change
H2O2	Slight discoloration or gloss loss



Clean Workshop Floor

Regular area flooring system:



Technical Data

Item	Data	Test Condition
Anti-pressure strength	≥70MPa	GB1041
Resistance to abrasion	≤40mg	GB1768(750gf, 500N)
Walkable time	about 16 hours (25°C)	
Adhesion strength	≥2.2MPa	GB5210, with concrete
Extension strength	≥7MPa	GB13022
Resistance to impact	50kg.cm	GB/T1732 Topcoat
Surface hardness	≥3H	Pencil hardness

Resistance to Chemicals (20°C, 1 month soak)

PH=1 H2SO4; HCl	No Change
20% H2SO4; HCl	Slight discoloration or gloss loss
5% NaOH	No Change
CaOH2	Slight discoloration or gloss loss
5% ammonia	Slight discoloration or gloss loss
BaCO3	Slight discoloration or gloss loss
Na2CO3	Slight discoloration or gloss loss
CaCl2	Slight discoloration or gloss loss
Formaldehyde	Slight discoloration or gloss loss
Mineral oil	No Change
H2O2	Slight discoloration or gloss loss

Car Park Floor

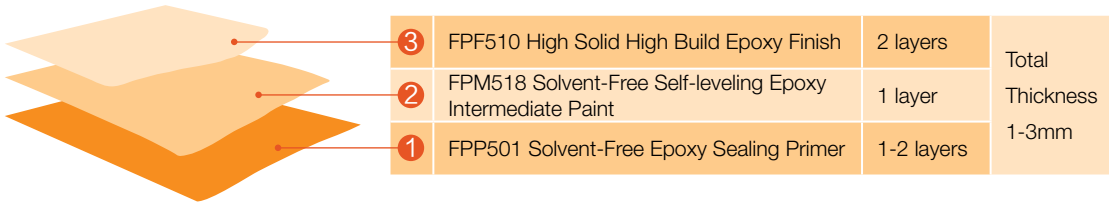




Indoor Car Parks Floor

Indoor car parks can be enhanced for office and retail to lift the appearance in refurbishments. A brighter, more aesthetic car park provides a safer environment.

Typical indoor car park flooring system:



Features

- Flat, clean and good appearance
- Avoiding the dust of concrete
- A certain degree of impact and heavy weight resistance

Technical Data

Item	Data	Test Condition
Anti-pressure strength	≥70MPa	GB1041
Resistance to abrasion	≤40mg	GB1768(750gf, 500N)
Walkable time	about 16 hours (25°C)	
Adhesion strength	≥2.2MPa	GB5210, with concrete
Extension strength	≥7MPa	GB13022
Resistance to impact	50kg.cm	GB/T1732 Topcoat
Surface hardness	≥2H	Pencil hardness

Resistance to Chemicals (20°C, 1 month soak)

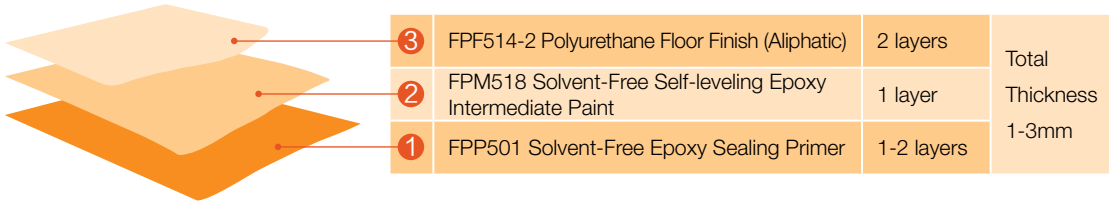
PH=1 H2SO4; HCl	No Change
20% H2SO4; HCl	Slight discoloration or gloss loss
5% NaOH	Change
CaOH2	Discoloration or gloss loss
5% ammonia	Slight discoloration or gloss loss
BaCO3	Slight discoloration or gloss loss
Na2CO3	Slight discoloration or gloss loss
CaCl2	Slight discoloration or gloss loss
Formaldehyde	Slight discoloration or gloss loss
Mineral oil	No Change
H2O2	Slight discoloration or gloss loss



Outdoor Car Parks Floor

Being exposed to the elements and needing resistance to traffic, our flooring systems are engineered to provide a long term coloured surface finish to your car park deck.

Typical outdoor car park flooring system:



Features

- Resistance to insolation aging
- Avoiding the dust of concrete
- High impact and heavy weight resistance

Technical Data

Item	Data	Test Condition
Walkable time	about 16 hours (25°C)	
Adhesion strength	≥2.2MPa	GB5210, with concrete
Anti-pressure strength	≥75MPa	GB1041
Surface hardness	≥2H	Pencil hardness
Resistance to abrasion	≤30mg	GB1768(750gf, 500N)
Weatherability (chalking)	≤1 grade	GB/T1865; 1000h
Weatherability (discoloring)	≤2 grade	GB/T1865; 1000h

Resistance to Chemicals (20°C, 1 month soak)

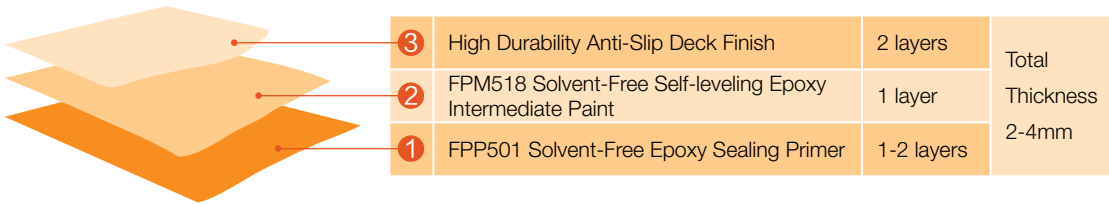
PH=1 H2SO4; HCl	No Change
20% H2SO4; HCl	Slight discoloration or gloss loss
10% HOCl	Slight discoloration or gloss loss
5% NaOH	Slight discoloration or gloss loss
CaOH2	Slight discoloration or gloss loss
5% ammonia	Slight discoloration or gloss loss
BaCO3	No Change
Na2CO3	Slight discoloration or gloss loss
CaCl2	Slight discoloration or gloss loss
Formaldehyde	Slight discoloration or gloss loss
Mineral oil	No Change



Ramp Floor

With the options of fine grained, sandblasting and roller coating surface, the skid-proof flooring system is great for ramps and areas in wet environment.

Typical ramp flooring system:



Features

- Excellent anti-slip ability in dry, wet and oily condition.
- Super abrasion resistance
- Crack resistance
- Chemical and liquid resistance
- Multiple pattern available

Technical Data

Item	Data	Test Condition
SCOF	≥1.2	
Walkable time	about 16 hours (25°C)	
Adhesion strength	≥2.2MPa	GB5210, with concrete
Anti-pressure strength	≥80MPa	GB1041
Surface hardness	≥3H	Pencil hardness
Resistance to abrasion	≤20mg	GB1768(750gf, 500N)
Weatherability (chalking)	≤1级	GB/T1865; 1000h
Weatherability (discoloring)	≤2级	GB/T1865; 1000h

Resistance to Chemicals (20°C, 1 month soak)

PH=1 H2SO4; HCl	No Change
20% H2SO4; HCl	Slight discoloration or gloss loss
10% HOCl	Slight discoloration or gloss loss
5% NaOH	Slight discoloration or gloss loss
CaOH2	Slight discoloration or gloss loss
5% ammonia	Slight discoloration or gloss loss
BaCO3	No Change
Na2CO3	Slight discoloration or gloss loss
CaCl2	Slight discoloration or gloss loss
Formaldehyde	Slight discoloration or gloss loss
Mineral oil	No Change

Commercial, Sports and Residence Floor

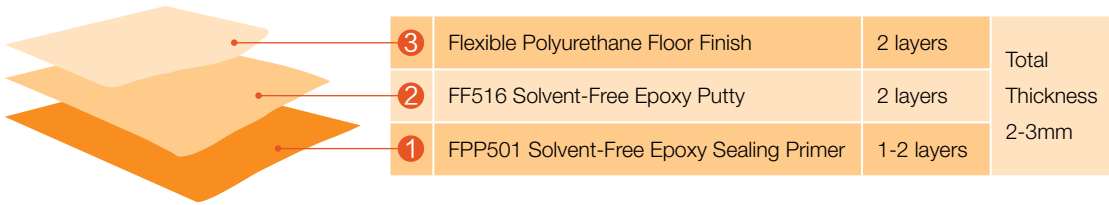




Flexible Floor Coatings

A low VOC, flexible polyurethane self-leveling flooring system, has the features of sound absorption, shock absorption and step comfort, is perfect for playgrounds, commercial and residence buildings.

Typical flexible flooring system:



Features

- Adjustable elastic
- Sound and shock absorption
- Step comfort
- Environment friendly
- Resistance to chemical and liquid
- Bright and colorful appearance

Technical Data

Item	Data	Test Condition
Anti-pressure strength	≥90MPa	GB1041
Adhesion strength	≥2.2MPa	GB5210, with concrete
Extension strength	≥9.5MPa	GB13022
Resistance to impact	50kg.cm	GB/T1732 Topcoat
Resistance to abrasion	≤20mg	GB1768(750gf, 500N)
Shore hardness	≥80	Shore D
Ductility	≥300%	JISK6911
Gloss	≥80%	60° ∠ specular reflectance

Resistance to Chemicals (20°C, 1 month soak)

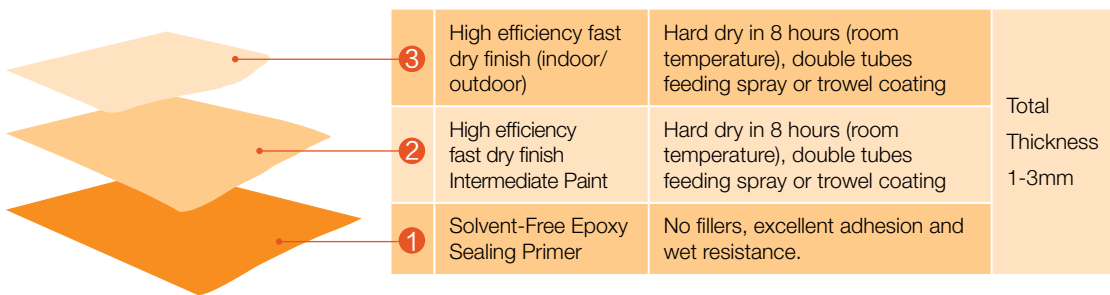
PH=1 H2SO4; HCl	No Change
20% H2SO4; HCl	Slight discoloration or gloss loss
10% HOCl	Slight discoloration or gloss loss
5% NaOH	Slight discoloration or gloss loss
CaOH2	Slight discoloration or gloss loss
5% ammonia	Slight discoloration or gloss loss
BaCO3	No Change
Na2CO3	Slight discoloration or gloss loss
CaCl2	Slight discoloration or gloss loss
Formaldehyde	Slight discoloration or gloss loss
Mineral oil	No Change



Fast Dry Floor Coatings

Fast dry, high application efficiency, great for retail stores and commercial chains.

Typical fast dry flooring system:



Features

- The whole flooring system could be done in 3 hours
- Walkable in 8 hours
- Low VOC
- Resistance to chemical and liquid
- Bright and colorful appearance

Technical Data

Item	Data	Test Condition
Resistance to abrasion	≤20mg	GB1768(750gf, 500N)
Walkable time	about 8 hours (25°C)	
Adhesion strength	≥2.2MPa	GB5210, with concrete
Extension strength	≥9.5MPa	GB13022
Resistance to impact	50kg.cm	GB/T1732 Topcoat
Surface hardness	≥2H	Pencil hardness
Gloss	≥80%	60° ∠ specular reflectance

Resistance to Chemicals (20°C, 1 month soak)

PH=1 H ₂ SO ₄ ; HCl	No Change
20% H ₂ SO ₄ ; HCl	Slight discoloration or gloss loss
10% HOCl	Slight discoloration or gloss loss
5% NaOH	Slight discoloration or gloss loss
CaOH ₂	Slight discoloration or gloss loss
5% ammonia	Slight discoloration or gloss loss
BaCO ₃	No Change
Na ₂ CO ₃	Slight discoloration or gloss loss
CaCl ₂	Slight discoloration or gloss loss
Formaldehyde	Slight discoloration or gloss loss
Mineral oil	No Change

Functional Floor Coatings

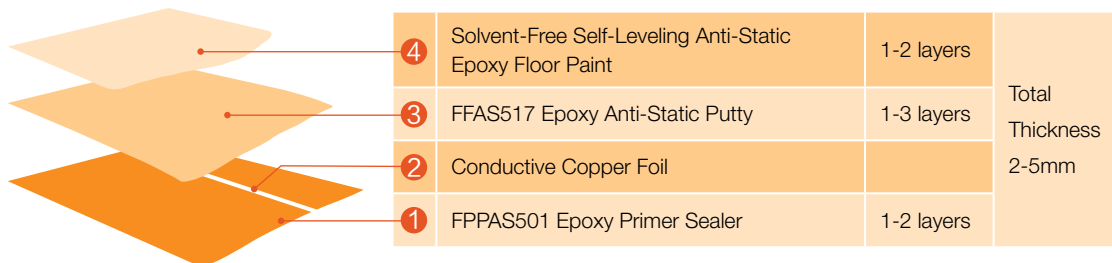




Antistatic Floor Coatings

The electrical resistance is 10^6 - 10^9 , applicable to the industry of aviation and computer, flammable and explosive workshops, and precise electronics instrument workshops.

Typical flexible flooring system:



Features

- Stable and long term anti-static ability
- Resistance to high pressure
- Easy to clean
- Great chemical resistance
- Adjustable electrical resistance range

Technical Data

Item	Data	Test Condition
Walkable time	about 24 hours (25°C)	
Adhesion strength	≥2.2MPa	GB5210, with concrete
Anti-pressure strength	≥90MPa	GB1041
Extension strength	≥9.5MPa	GB13022
Resistance to impact	50kg.cm	GB/T1732 Topcoat
Surface hardness	≥2H	Pencil hardness
Resistance to abrasion	≤20mg	GB1768(750gf, 500N)
Gloss	≥80%	60° ∠ specular reflectance
Resistivity	10^5 - 10^9 Ω	ASTM F150-98

Resistance to Chemicals (20°C, 1 month soak)

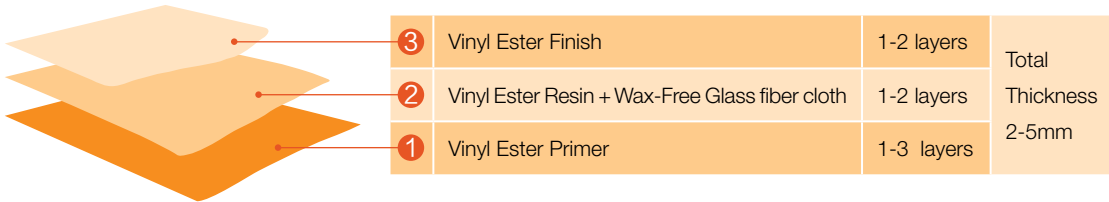
PH=1 H2SO4; HCl	No Change
20% H2SO4; HCl	Slight discoloration or gloss loss
10% HOCl	Slight discoloration or gloss loss
5% NaOH	Slight discoloration or gloss loss
CaOH2	Slight discoloration or gloss loss
5% ammonia	Slight discoloration or gloss loss
BaCO3	No Change
Na2CO3	Slight discoloration or gloss loss
CaCl2	Slight discoloration or gloss loss
Formaldehyde	Slight discoloration or gloss loss
Mineral oil	No Change



Acid Alkali and Chemical Resistant Floor Coatings

Super strong chemical resistance, could withstand long time soaking in strong acid and alkali, applicable to rigorous chemical corrosive areas, such as pickling workshops and acid - alkali industrial workshops.

Typical flexible flooring system:



Features

- Super strong chemical resistance
- Resistant to 75% concentration of sulfuric acid
- Slip and abrasion resistance, high durability
- Jointless construction, easy to clean
- Easy to maintain
- Resistance to the majority of acid, alkali and salt under 100°C

Technical Data

Item	Data	Test Condition
Walkable time	about 24 hours (25°C)	
Adhesion strength	≥2.2MPa	GB5210, with concrete
Anti-pressure strength	≥130MPa	GB1041
Flexure strength	≥230MPa	GB177-92
Extension strength	≥100MPa	GB13022
Surface hardness	≥2H	Pencil hardness
Resistance to abrasion	≤25mg	GB1769(750gf, 500N)
Gloss	≥80%	60° ∠ specular reflectance
Water absorption	≤0.2%	
Shrinkage	≤0.2%	

Resistance to Chemicals

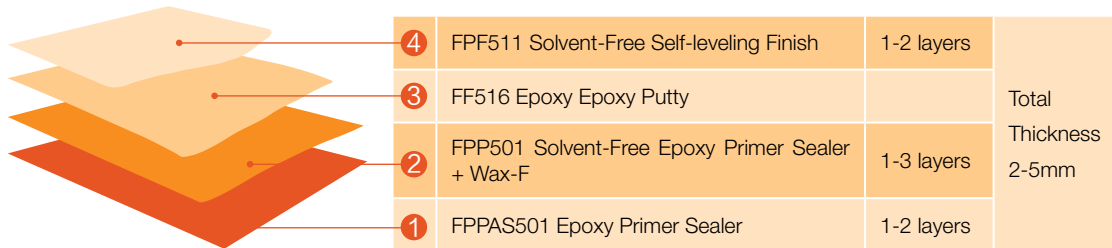
75% H ₂ SO ₄	No Change(45°C)	Saturation ammonia	No Change(<100°C)
70% H ₂ SO ₄	No Change(80°C)	5% NaOH	No Change(<100°C)
25% H ₂ SO ₄	No Change(<110°C)	30% NaOH	No Change (room temperature)
37% HCl	No Change(80°C)	35% Na ₂ CO ₃	No Change(<80°C)
40% HNO ₃	No Change (room temperature)	Ammonia water, gas phase	No Change (room temperature)
20% HNO ₃	No Change(<60°C)	Xylene	No Change(<45°C)
5% HNO ₃	No Change(<80°C)	90% Alcohol	No Change (room temperature)
30% H ₂ CrO ₄	No Change (room temperature)	Glycol	No Change(<100°C)
75% CH ₃ COOH	No Change(<60°C)	Phenol	No Change (room temperature)
25% CH ₃ COOH	No Change(<100°C)	Urea	No Change(60°C)
100% CH ₃ COOH	No Change (room temperature)	Gasoline	No Change(80°C)
20% HF	No Change (room temperature)	Flue gas	No Change(<200°C)
10% HF	No Change(<60°C)	Zinc electrolyte	No Change(<60°C)
30% H ₂ O ₂	No Change(<60°C)	Nickel electrolyte	No Change<60°C)



Sewage Resistant Floor Coatings

Suitable for dyeing plants, sewage tanks and drain ditches.

Typical flexible flooring system:



Features

- Resistance to cracking
- Resistance to permeation
- Resistance to light and middle corrosive chemical soaking

Technical Data

Item	Data	Test Condition
Walkable time	about 16-24 hours (25°C)	
Adhesion strength	≥2.2MPa	GB5210, with concrete
Anti-pressure strength	≥80MPa	GB1041
Flexure strength	≥200MPa	GB177-92
Extension strength	≥9.5MPa	GB13022
Surface hardness	≥3H	Pencil hardness
Resistance to abrasion	≤20mg	GB1768(750gf, 500N)

Resistance to Chemicals (20°C, 1 month soak)

PH=1 H2SO4; HCl	No Change
20% H2SO4; HCl	Slight discoloration or gloss loss
5% NaOH	No Change
20% NaOH	Slight discoloration or gloss loss
CaOH2	Slight discoloration or gloss loss
5% ammonia	Slight discoloration or gloss loss
BaCO3	No Change
Na2CO3	No Change
CaCl2	No Change
Formaldehyde	Slight discoloration or gloss loss
Mineral oil	No Change
H2O2	Slight discoloration or gloss loss

Application of Epoxy Floor Coatings

1. Application Equipments and Tools

Equipments for Treating Substrate

- Abrading and cutting machine Assembling with diamond grinding knife, suitable for surface rubbing of concrete, terrazzo, indurations anti-abrasion floor, marble etc.
- Milling machine: Suitable for remove old coat and greasy substrate.
- Shot blast equipments: Suitable for surface impact cleaning of floor of large area concrete, terrazzo, indurations anti-abrasion floor, marble etc.
- Dust collector: Suitable for remove dust on the floor .
- Mortar stirring equipment, spreading facility and floating lathe: Suitable for applying thick resin mortar ($\geq 3\text{mm}$), spread the totally mixed resin mortar on the floor by spreading facility, then float the surface by floating lathe.

Rubbing Tools for The Surface of Intermediate Coat

- Large-scale Rubbing Machine: High efficiency and fast.
- Polisher and Belt sander: Use thin abrasion cloth to rub mortar or filler before painting finish to gain smooth surface; use wider abrasion cloth to rub substrate such as concrete.

Paining tools

- Toothed trowel, spike, nail roller: Toothed trowel is used to trowel self-leveling floor coatings, then roll the wet film with nail roller to release air in the film; Put on spike to repair wet film while film defect is happening.
- Flat scraper blade: Suitable to spread heavy-bodied floor coatings such as primer mortar and filler, blading cling to floor.
- Roller and brush
- Airless spraying equipment: Suitable for painting floor finish, high efficiency, good effect of decoration, easy to control consume of coating.
- Air spraying equipment: Including air compressor and gun, suitable for floor coating with low viscosity.

Test Instruments

- Thermometer and hygroscope.
- Instrument for measuring water content of substrata.
- Antistatic ratio test instrument.

Other Assistant Tools

- Weighing and whisking tools.
- Cutter and glue gun: Suitable for treating the cracks.

2. Specification and preparation of Substrate

Specification of Concrete Substrate

- Maintain and dry no less than 3 weeks, percentage of moisture no more than 6%;
- Smooth and hard, Anti-pressure strength $\geq 20\text{MPa}$;
- Treat concrete substrate with waterproof it the painted floor is on first level and water table is quite high. If not satisfy this requirement, please choose water based epoxy floor coating with excellent water vapour transmission.

Preparation of Various Substrates

1) Concrete, Cement and Mince Stone Cement Mortar

- Using abrading and cutting machine or shot blasting; then suck dust with dust collector. This can remove all floating dust and dirt from substrate surface and increase roughness of the even surface.



Rubbing treatment for substrate

2) Surface of Terrazzo, Indurations Anti-abrasion Floor, Marble and Granite

- Remove wax by dewaxing liquid;
- Remove grease with cleanser or solvent;
- Use abrading and cutting machine (with diamond rubbing knife) to rub surface and remove dirty, obtain rough surface, this is helpful to increase adhesion between coat with substrate.



Repair cracks

3) Grease Floor

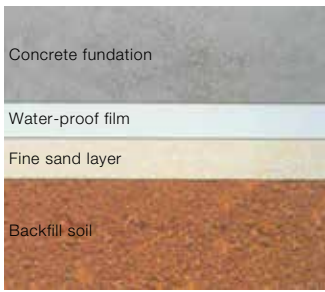
- If grease is on the surface, using cleanser of dirty or of solvent to remove;
- Film grease layer ($>2\text{mm}$) can remove wholly by milling machine;
- Part grease canbake off by fire gun;
- Thick grease layer ($>2\text{mm}$): Remove completely, then costruct concrete again.

4) Old Coat

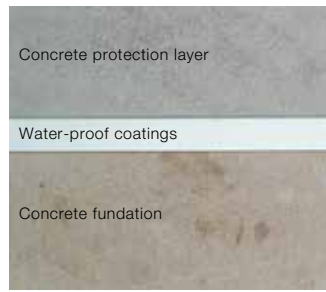
- Repair: Remove loose old coat, brush one coat sealer. Then filler with resin mortar and paint finish wholly after removing dirty and dust.
- Application again: Remove old coat completely with cutting machine ($<1\text{mm}$) or milling machine ($>1\text{mm}$), then apply floor coatings again.

5) Steel Structure Platform

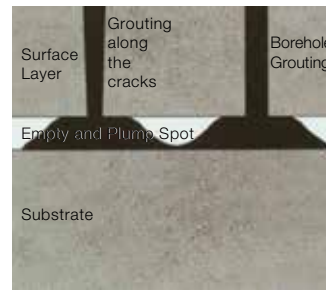
- Remove rust up to GB8923 St2 level with power tool, and remove dirty, dust etc. with solvent.



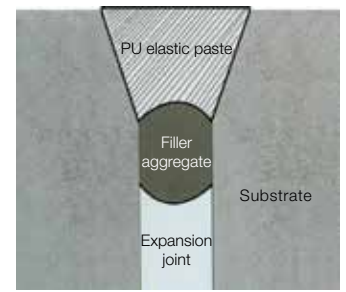
Application method 1 of waterproof layer



Application method 2 of waterproof layer



Repair the empty and plump spot



Affuse PU elastic paste

Suggestions of Application on Waterproof Layer

- For bottom floor which water table is higher, waterproof layer within concrete is necessary. If not, plumping and peeling may be happen due to infiltration pressure.

Checking Substrate, Repairing Flaw of Substrate

1) Application of Subsiding Slot, Structure Slot and Flexing Slot

- Hide these gaps under partition wall if possible;
- If possible, fill with solvent-free resin mortar and then apply floor coatings, with no slot (may come out slot after)
- If possible, save gap or cutting and decoration again after applying floor coatings;
- Cut and decorate again after applying floor coatings, then affuse PU elastic paste (refer to picture).

2) Application of Waterproof Layer

- Method 1: Spread thin sand on the backfill soil, then spread plastic film. Width on the connecting place is not less than 10cm then construct concrete layer;
- Method 2: Apply 1.5-2mm waterproof coat on concrete base, then construct protecting layer.

Smoothness

- Check with ruler of 2m and measure the clearance away the substrate.
- Rubbing flat the high spot and dubbing-out the low area with resin mortar;

- Thicken floor coat to reduce the fall.

Surface Cracks

- Incise it to V type by following slot, then fill with solvent-free resin mortar;

Intensity and Surface Loosening of Substrate

- Remove low intensity concrete and construct again;
- Remove incompact concrete on the surface, suck dust with collector, then apply with FPP501 of strong osmosis;
- Make the thicker ($\geq 3\text{mm}$) resin mortar layer or coating strong or spread glass fiber cloth between coats.

Empty and Plump Spot

- Cut into slot or drill to fill with FPP501;
- Remove the plump concrete, and construct cement mortar again or repair by solvent-free resin mortar.

Waterproof Layer and WaterContent of Substrate

- Find out whether bottom concrete include waterproof layer, and observe the water table of this area;
- Test water content of substrate with special instrument;
- Spread airtight plastic film on the floor and seal around by adhesive tape. After 24 hours, observe coagulate bead in the film and moisture on the floor.
- Ventilation, prolonging periods of maintaining, drying partly;
- Using water based epoxy floor coating with good ventilation.

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