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ABOUT NIPPON PAINT MALAYSIA

At Nippon Paint, we pride ourselves as the coating experts with innovations that has shaped the lives of millions, building better, brighter and beautiful community with full of colour and opportunities. It all stems from breakthrough researches, meticulously developed by our scientist and chemist at our world leading facilities. With more than 10 years of experience and technology in flooring and coating solutions, we are able to offer Total Coating & Construction Solutions to our customers, providing excellent flooring protection for a myriad of industries.

As the trusted brand for more than 50 years, we have a dedicated and proactive sales force and Color Consultant Team ready to attend to all your enquiries. Our professional technical consultants are ready for any technical assistance needed in pre, during and post construction phases.

66

Innovation is at its peak when it is harnessed for a singular aim - the smile on our customers' face,

- Yaw Seng Heng, Group MD, Nippon Paint (Malaysia) Sdn. Bhd. -

NIPPON PAINT TOTAL COATING & CONSTRUCTION SOLUTIONS



COATINGS











FLOORING SOLUTIONS

& FILLER SOLUTIONS

DRYMIX
SOLUTIONS

OUR PROFESSIONAL SERVICES



NIPPON PAINT FLOORING SOLUTIONS OVERVIEW

At Nippon Paint, we don't believe in just one solution for all sectors. As the Total Coating & Construction Solutions provider, we understand that every floor has different needs and challenges unique to their respective projects and as a result, we pride ourselves in our ability to provide comprehensive solutions tailored to your business.

Our partnership begins with a thorough consultation and assessment of your project needs - impact resistance, wear resistance, chemical resistance, special feature, aesthetic needs, quick and efficient installation. With our products, we can customize to meet your technical requirement.



FLOORSHIELD INDUSTRIAL FLOORING

Industrial floor coatings ranging from water-based & solvent-free epoxy, solvent-based PU & self levelling epoxy to provide excellent abrasion and chemical resistances for light to heavy duty areas.



CAR PARK DECK SYSTEM CAR PARK FLOORING

Car park deck flooring systems that are ideal for exposed, intermediate, basement decks and even car park linings.



FLOORSHIELD UCREED FOOD SAFE FLOORING

HACCP certified floor coatings that are suitable to be used in areas that have strict cleanliness requirements, i.e, food production, cold warehouses.



FLOORSPORTS SPORTS COURT FLOORING

Sports court flooring systems that are certified by International Tennis Federation (ITF) providing excellent scratch and abrasion resistance for all kinds of sports floors.



FLOORSHIELD ESD ANTI-STATIC FLOORING

Electrostatic discharge (ESD) floor coating systems that can provide conductive or dissipative properties for static sensitive areas.



FLOOR HARDENER & UNDERLAYMENT

Dry shake floor hardeners and liquid densifiers for freshly laid concrete providing a stronger concrete surface. Underlayments to provide a smooth and level surfaces prior to application of overlayments ie, tiles, carpet, vinyl, etc.

FLOOR SURFACE REQUIREMENT:

Before applying any form of coating on to any type of the floor, the floor surface has to be prepared thoroughly to ensure that the coatings perform as intended. An ill-prepared surface could lead to deformation of the surface coating, early signs of cracking, or even water leakage. There are few common methods to prepare a surface before applying the coating on it. However, specific coatings and conditions will have their own respective surface preparations.

SUBSTRATE REQUIREMENT:

Before applying any floor coating, the condition of the substrate, specifically concrete has to meet the surface requirements.

MOISTURE CONTENT

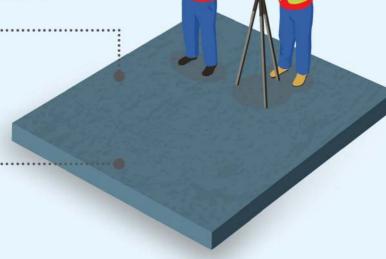
Uprising moisture can cause floor coatings to crack and peel off. Moisture content level of concrete substrate to be kept < 4%. Moisture barrier will be required for higher moisture contents.

COMPRESSIVE STRENGTH

Minimum Compressive Strength: 25 N/mm²

TENSILE ADHESION STRENGTH

Minimum Tensile Adhesion Strength: 1.5 N/mm²



SURFACE PREPARATION:

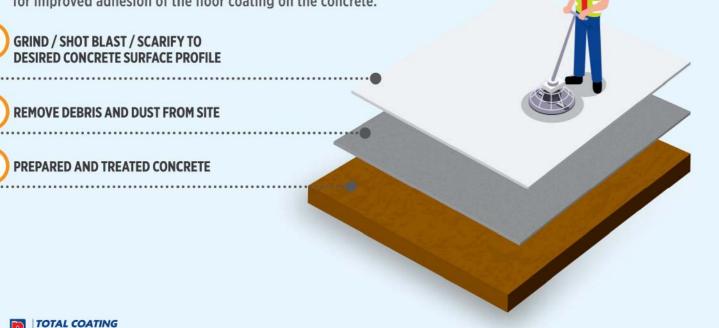
It is important to prepare concrete surfaces prior to applying coatings on top. Preparing the concrete is to achieve a desired surface profile for improved adhesion of the floor coating on the concrete.

GRINDING / SHOT BLASTING / SCARIFYING

GRIND / SHOT BLAST / SCARIFY TO DESIRED CONCRETE SURFACE PROFILE

REMOVE DEBRIS AND DUST FROM SITE

O) PREPARED AND TREATED CONCRETE



CONCRETE SURFACE PROFILE SELECTION GUIDE

Concrete Surface Profiles (CSP) are divided into various categories classified under the technical guideline No.310.2R by the International Concrete Repair Institute (ICRI). The type of CSP is decided by the thickness of the flooring system selected.

SYSTEM THICKNESS (MM)	CSP2	CSP3	CSP4	CSP5	CSP6
0 - 0.075	✓				
0.100 - 0.250	✓	✓			
0.250 - 1.000		V	V	V	
1.250 - 3.175			✓	✓	✓
3.175 - 6.350				✓	✓
> 6.350				✓	✓

NOTE: These CSP serves as a guideline and reference only and may vary from case to case.











NIPPON PAINT FLOOR COATING SYSTEM GUIDE

	SYSTEMS	CSP2	CSP3	CSP4	CSP5	CSP6
	SOLVENT FREE EPOXY		/	✓	✓	
	SOLVENT FREE SELF LEVELLING			✓	✓	✓
	SOLVENT FREE EPOXY (MOISTURE BARRIER)				/	✓
اه	SOLVENT FREE SELF LEVELLING (MOISTURE BARRIER)				✓	✓
FLOORSHIELD	SOLVENT FREE EPOXY PU		*	/	✓	
ğ	SOLVENT FREE EPOXY PU (MOISTURE BARRIER)				✓	✓
리	UCREED MD				/	V
	UCREED HD				✓	✓
	ESD (DISSIPATIVE)*		✓	✓	✓	
	ESD (CONDUCTIVE)*		/	✓	✓	
Ī	CAR PARK DECK ID (INTERMEDIATE DECK)		/	✓		
	CAR PARK DECK BD (BASEMENT DECK)				✓	V
	CAR PARK DECK ED (EXPOSED DECK)		/	✓		
ı	AQUA EPOXY	✓	1			

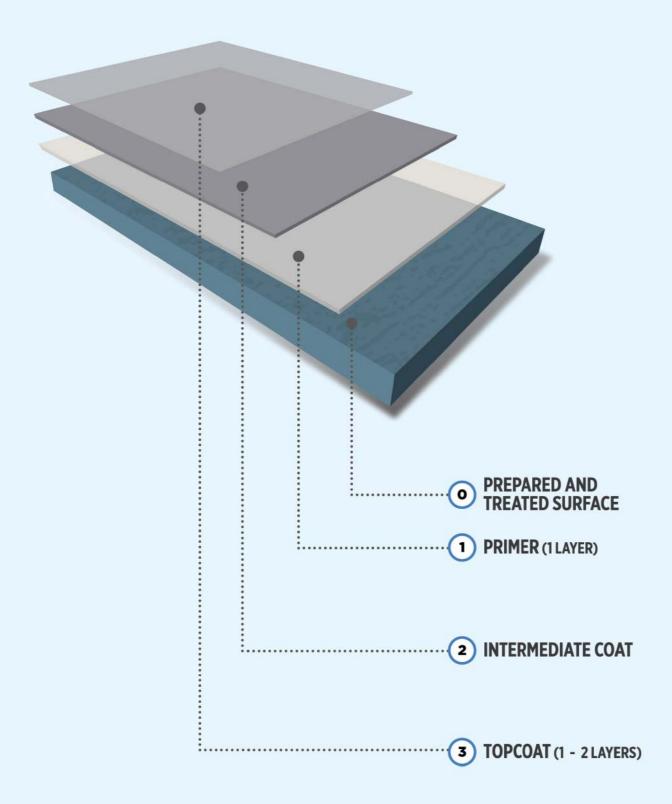
NOTE: *Concrete surface profile may vary for type of ESD system used.



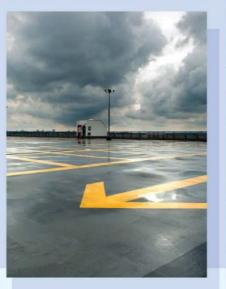
FLOOR COATING SYSTEMS:

Our standard floor coating system is our most basic flooring system applicable in both exterior and interior. This standard coating system provides a multitude of properties from self-levelling to UV protection. All of the standard coating systems provide a smooth finishing when completely cured.

STANDARD SYSTEM



With our customizable flooring systems, our flooring systems can accommodate various situations based on your needs just by changing the intermediate coat





WATERPROOFING SYSTEMS

Waterproofing systems are suitable for exposed areas to help prevent cracks on the surface while providing waterproofing protection.

MOISTURE BARRIER SYSTEMS

For basement and/or direct ground contact where the moisture content is more than 4%, we provide epoxy mortar systems that acts as a Moisture Barrier.

ANTI-SKID FLOORING SYSTEMS

Our coating systems can also be imparted with anti-skid properties with the Orange Peel System or Broadcast Sand System for Light-Duty and Medium-Duty.

LIGHT-DUTY

ANTI-SKID FINISHING

SMOOTH FINISHING BASEMENT / DIRECT EXPOSED AREAS MEDIUM-DUTY GROUND CONTACT ORANGE PEEL BROADCAST WATERPROOFING SYSTEM MOISTURE BARRIER SYSTEM SAND SYSTEM SYSTEM PREPARED & WATERPROOF 0 PREPARED & TREATED SURFACE TREATED SURFACE PRIMER FLOORSHIELD **FLOORSHIELD** SF EPOXY MORTAR SF EPOXY **FLOORSHIELD** BODY COAT (2) N/A

FLOORSHIELD

SF EPOXY OP

TEXTURED FINISH

(3)

SF EPOXY OP TEXTURED FINISH

N/A

PU ANTI-SKID

SYSTEM

FLOORSHIELD TOPCOAT PU ANTI-SKID

QUARTZ SCATTER 36

(30X60) MEDIUM

PRODUCTION / LOGISTICS / CHEMICAL PLANTS FLOORSHIELD | INDUSTRIAL FLOORING



Production plants and logistic warehouses experience a multitude of stresses on their surfaces due to the nature of their work. The main stresses are the mechanical stress from the high usage of heavy machineries i.e., forklifts. Besides mechanical stresses, chemical stress and thermal stress are also a factor that will affect the surface in these locations.

Nippon Paint FloorShield offers multiple flooring solutions that are engineered to help withstand these extreme environments. For example, our FloorShield Solvent Free Epoxy system offers excellent abrasion resistance to counter the mechanical stresses from forklifts, and chemical resistance to protect the floor from chemical attacks due to spillage.

Alternatively, Nippon Paint FloorShield range also offers self-levelling flooring systems for a seamless and smooth appearance. These systems are suitable as it prolongs the life span of the floor, thus, minimising the need for frequent maintenance or replacement.

FLOORSHIELD

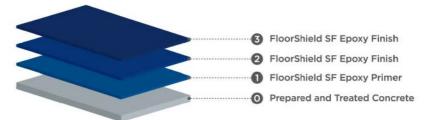
Solvent Free Epoxy System







High Performance Solvent Free Epoxy Coating System





For Basement / Direct Ground Contact (moisture content >4%) MOISTURE BARRIER SYSTEM

For Anti-Skid Purpose **ORANGE PEEL SYSTEM BROADCAST SAND SYSTEM**

For Matt Finishing Add one coat of FloorShield WB PU Clear Matt

FLOORSHIELD Self Levelling Epoxy System

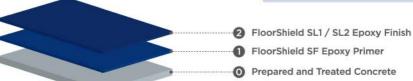














For Basement / Direct Ground Contact (moisture content >4%) MOISTURE BARRIER SYSTEM

For Matt Finishing Add one coat of FloorShield WB PU Clear Matt

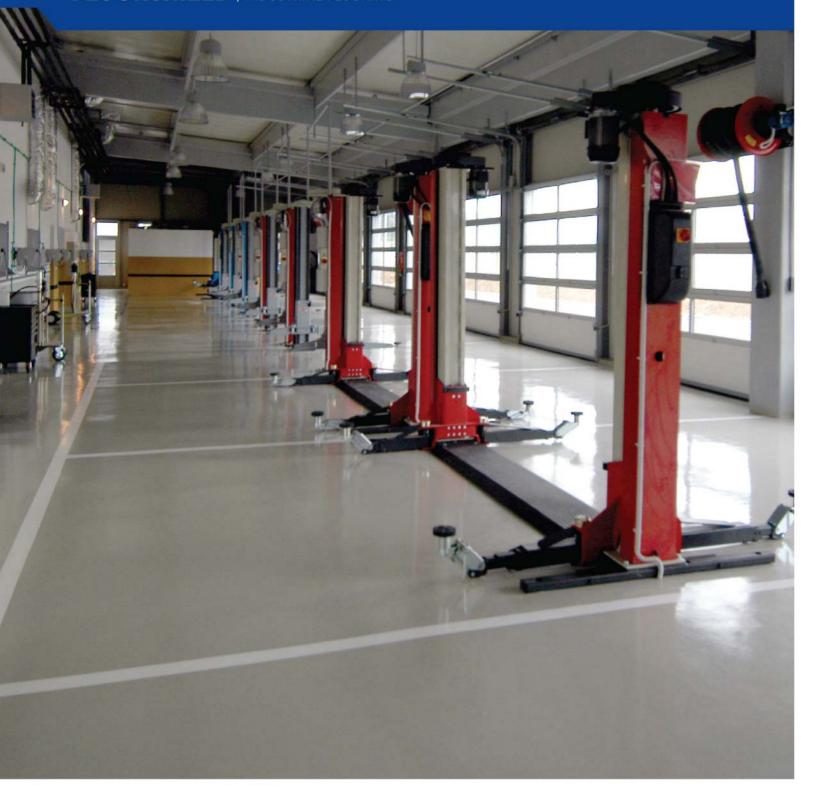
			MOISTURE BARRIER SYSTEM		
SYSTEMS	FLOORSHIELD Solvent Free Epoxy System	FLOORSHIELD Solvent Free Self Levelling Epoxy System	FLOORSHIELD Solvent Free Epoxy System	FLOORSHIELD Solvent Free Self Levelling Epoxy System	
NO. OF COATS*	3	2	5	4	
TOTAL THICKNESS (MM)*	0.5 - 0.6	1.0 - 2.0	4.5 - 5.0	5.5 - 6.0	
ABRASION RESISTANCE (ASTM D4060)	< 80mg / 1000 cycles	< 80mg / 1000 cycles	< 80mg / 1000 cycles	< 80mg / 1000 cycles	
SHORE D HARDNESS (ASTM D2240)	> 80	> 75	> 80	> 75	
COMPRESSIVE STRENGTH (ASTM C579)	> 85N/mm²	> 85N/mm²	> 40N/mm²	> 40N/mm²	
FLEXURAL STRENGTH (ASTM C580)	> 40MPa	> 40MPa	> 20MPa	> 20MPa	
ADHESION STRENGTH (ASTM D4541)	> 1.5N/mm²	> 1.5N/mm²	> 1.5N/mm²	> 1.5N/mm²	

NOTE: All coating systems represented here are recommendations only and may vary from case to case. *Subjected to type of system or finishing.



AUTOMOTIVE 3S / 4S CENTRES

FLOORSHIELD | INDUSTRIAL FLOORING



In the current times, vehicles of all shapes and sizes exist on the roads. To maintain all these vehicles, 3S and 4S centres are rapidly being developed to accommodate the number of vehicles. In the automotive industry, these 3S centres are the sales, service and spare parts service centres while the 4S centres have an additional paint service in their operations.

These areas experience high mechanical stresses on the floors due to the high vehicular traffic. Furthermore, the area is subjected to the many oils and lubricants used. This could damage the floors which could cause injuries to the individuals in the area.

These centres need to be protected from the mechanical and chemical stresses due to the work environment. Nippon Paint FloorShield offers a variety of solutions that can provide excellent abrasion and chemical resistance to protect the floors under these conditions.



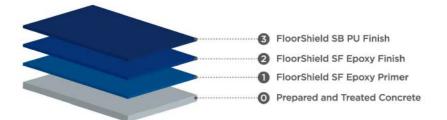
FLOORSHIELD **Epoxy PU System**





Protection

UV-Resistance PU Flooring Coating System





For Basement / Direct Ground Contact (moisture content >4%) MOISTURE BARRIER SYSTEM

For Anti-Skid Purpose **ORANGE PEEL SYSTEM BROADCAST SAND SYSTEM**

For Matt Finishing Add one coat of FloorShield WB PU Clear Matt

		MOISTURE BARRIER SYSTEM
SYSTEMS	FLOORSHIELD Epoxy PU System	FLOORSHIELD Epoxy PU System
NO. OF COATS*	3	5
TOTAL THICKNESS (MM)*	0.5 - 0.6	5.0 - 5.5
ABRASION RESISTANCE (ASTM D4060)	< 80mg / 1000 cycles	< 80mg / 1000 cycles
SHORE D HARDNESS (ASTM D2240)	> 80	> 80
COMPRESSIVE STRENGTH (ASTM C579)	85N/mm²	> 40N/mm²
FLEXURAL STRENGTH (ASTM C580)	40MPa	> 20MPa
ADHESION STRENGTH (ASTM D4541)	> 1.5N/mm²	> 1.5N/mm²
UV LIGHT RESISTANCE	Excellent (Non-Yellowing)	Excellent (Non-Yellowing)

NOTE: All coating systems represented here are recommendations only and may vary from case to case. *Subjected to type of system or finishing.



FOOD PROCESSING / COLD STORAGES FLOORSHIELD UCREED® | FLOOR SAFE FLOORING













Abrasion &







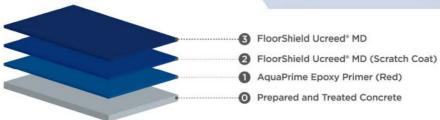


Self-Smoothing

Abrasion &

Resistance

Smoothing







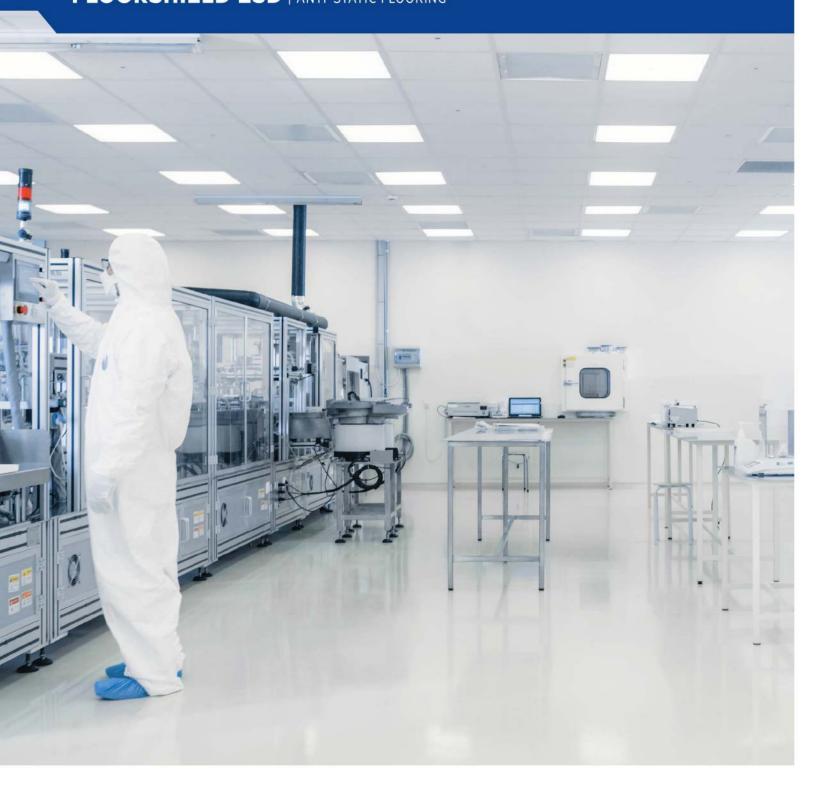
Many food industries such as food processing, packing and cold rooms require surfaces where hygiene and cleanliness are the utmost importance. Due to the constant high temperature sterilisation or low temperature environments, the flooring used will need to meet many requirements.

With our FloorShield Ucreed® & AquaClean systems, we are able to provide durable and HACCP food safe certified flooring solutions for all your hygienic purposes. Our systems are suited for both medium and heavy duty environments while withstanding thermal shock, chemicals, impact and abrasion.

	IS TANK	TOOP"
SYSTEMS	FLOORSHIELD Ucreed® MD	FLOORSHIELD Ucreed® HD
NO. OF COATS*	4	4
TOTAL THICKNESS (MM)*	4-7	7 - 13
ABRASION RESISTANCE (ASTM D4060)	38mg / 1000 cycles	83mg / 1000 cycles
SHORE D HARDNESS (ASTM D2240)	> 80	>82
COMPRESSIVE STRENGTH (BS 6319)	> 50MPa	> 50MPa
FLEXURAL STRENGTH (ASTM C348)	> 20MPa	> 20MPa
ADHESION TO CONCRETE (ASTM C158)	> 1.5MPa	> 1.5MPa
SERVICE TEMPERATURE	5°C to 80°C (3mm) -5°C to 100°C (6mm)	-15°C to 130°C (6 - 9mm) -40°C to 150°C (9 - 12mm)

NOTE: All coating systems represented here are recommendations only and may vary from case to case. *Subjected to type of system or finishing.

CLEAN ROOMS / ELECTRONIC PLANTS FLOORSHIELD ESD | ANTI-STATIC FLOORING



Certain areas are highly sensitive to static due to the nature of the industries. Some industries such as semiconductor plants, pharmaceutical plants, and clean rooms requires static to be discharged safely to prevent damage to equipment or finished products. Some areas require conductive static discharge whereby static discharges faster while some may need dissipative static discharge for slower static discharge.

To safely discharge static to the floor, Nippon Paint FloorShield ESD floor systems are suitable to be used for these industries. Our flooring systems are able provide hygienic anti-static solutions for both conductive and dissipative.

FLOORSHIELD

ESD (Dissipative)



Electrostatic





Anti-Static Dissipative (106Ω to 109Ω) Floor Coating System



PloorShield ESD SF Epoxy Finish

Earthing Kit / 1 pc every 100m²

O Underlayment / Scratch Coat / Primer

Various Finishing Coats **ESD SL EPOXY FINISH & ESD UCREED® MD****

For Exposed UV Areas **ESD PU FINISH**

For Basement / Direct Ground Contact (moisture content >4%) MOISTURE BARRIER SYSTEM

FLOORSHIELD ESD (Conductive)

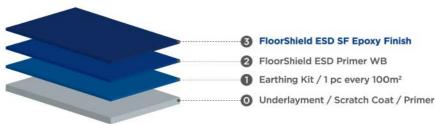


Chemical



Hygienic & Easy to Clean

Anti-Static Conductive (104Ω to 106Ω) Floor Coating System



S FloorShield ESD SF Epoxy Finish

2 FloorShield ESD Primer WB

Earthing Kit / 1 pc every 100m²

Various Finishing Coats

Also Available:

ESD SL EPOXY FINISH & ESD UCREED® MD**

For Exposed UV Areas **ESD PU FINISH**

For Basement / Direct Ground Contact (moisture content >4%) MOISTURE BARRIER SYSTEM



FLOORSHIELD

Compliant



Compliant

< 20s

< 100 volts

< 5mg / 1000 cycles

> 75

> 50N/mm²

ESD (Dissipative) ESD (Conductive) **SYSTEMS** NO. OF COATS* TOTAL THICKNESS (MM)* 0.5 - 0.6 0.5 - 0.6 SURFACE TO GROUND & SURFACE TO SURFACE 1 x 10⁶ ohm to 9 x 10⁹ ohm 1 x 10⁴ ohm to 9 x 10⁶ ohm (EARTH) RG SPEC

< 20s **HUMAN BODY HUMAN BODY VOLTAGE** < 100 volts ABRASION RESISTANCE* < 5mg / 1000 cycles (ASTM D4060)

SHORE D HARDNESS* (ASTM D2240)

ANSI / ESD S-20.20-2007

DECAY TIME THROUGH

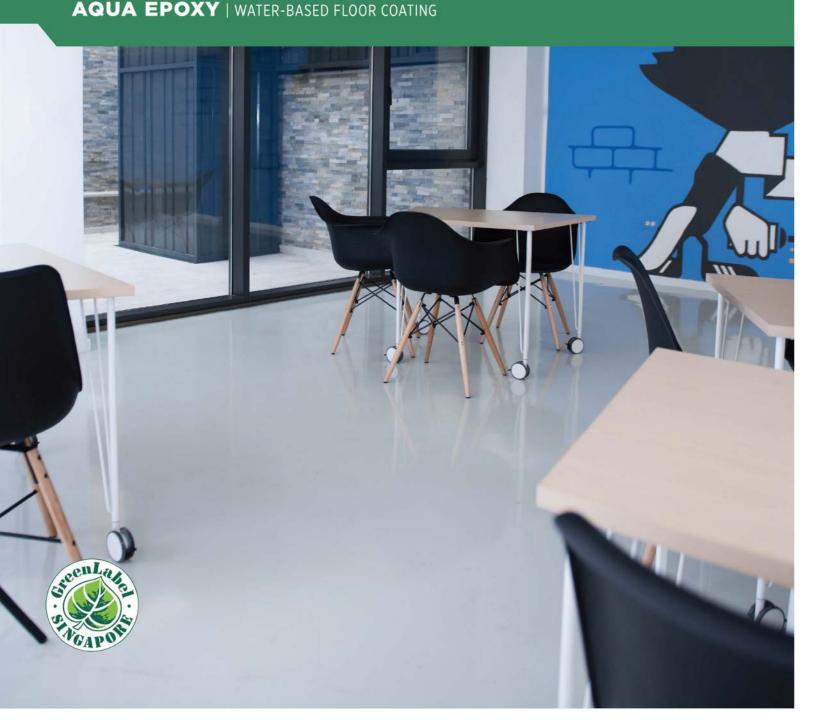
> 75

COMPRESSIVE STRENGTH* > 50N/mm²

NOTE: All coating systems represented here are recommendations only and may vary from case to case. *Subjected to type of system or finishing.



LIGHT INDUSTRIAL / COMMERCIAL AREAS



When choosing floor coatings, various industries from light industrial to commercial areas have to be considered. One of the factors to be considered is the indoor air quality as this affects the well-being of the people in the area. Hence, a floor coating with low VOC is desirable for facilities looking to minimize the unintended consequences of lesser air quality.

A wide range of colours of different shades are offered with the our flooring systems. With this, floorings can be customized to fit the preferred aesthetics. Our floor systems are also suitable to be applied on already tiled floors. This would make maintenance much easier as it does not require to hack and replace tiles.

Nippon Paint's Aqua Epoxy is an antimicrobial, low VOC and environmentally friendly floor solution certified by Singapore Green Label Scheme. With excellent abrasion resistance properties, this flooring solution is suited for industrial uses as well.

Aqua Epoxy

Antimicrobial Water-based Floor Coating System

Antimicrobial Water-based Floor Tiles Coating System



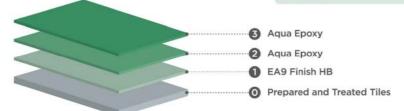






Low Odour

Water Based



Aqua Epoxy (Tiles)



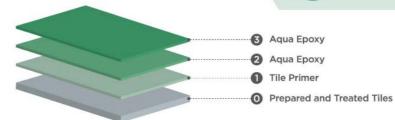
Abrasion







Various



SYSTEMS	Aqua Epoxy	Aqua Epoxy (Tiles)
NO. OF COATS	3	3
TOTAL THICKNESS (MM)	0.2 - 0.25	0.2 - 0.25
HARDNESS (ASTM D3363)	2Н	2Н
ABRASION RESISTANCE (ASTM D4060)	83mg / 1000 cycles	83mg / 1000 cycles

NOTE: All coating systems here are represented here are recommendations only and may vary from case to case.

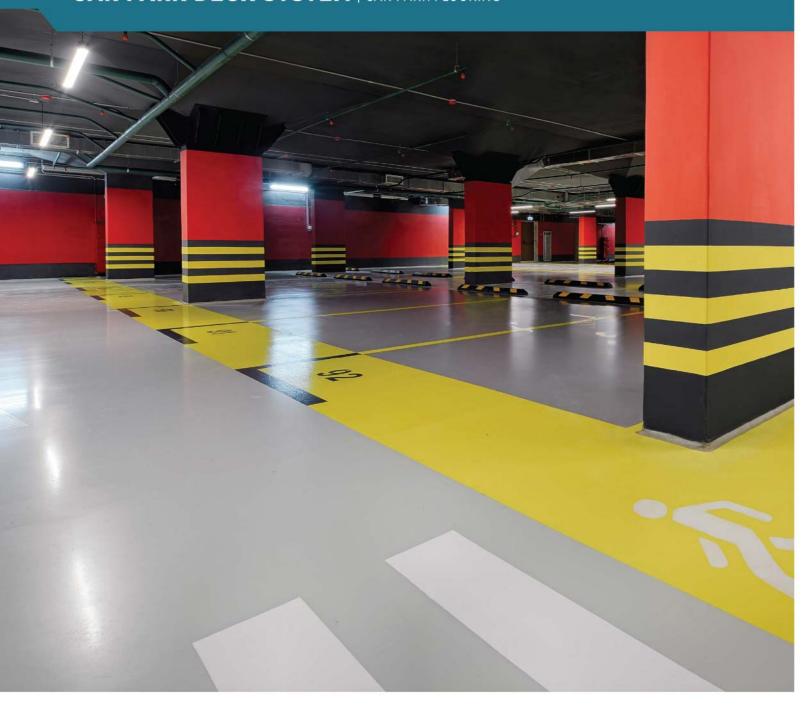
CHEMICAL RESISTANCE CHART

CHEMICALS	SOLVENTS	OILS	OTHERS
✓ SODIUM HYDROXIDE (50%)	✓ METHANOL	✓ OIL - DIESEL	✓ COFFEE / TEA
✓ CALCIUM HYDROXIDE (20%)	✓ ISOPROPANOL	✓ OIL - PETROL	✓ CITRUS JUICE
✓ AMMONIA (20%)	✓ XYLENE	✓ BRAKE FLUIDS	✓ DISTILLED WATER
✓ PHOSPHORIC ACID (10%)	✓ TOULENE	✓ MOTOR OIL	✓ DEIONIZED WATER

NOTE: 1) Discoloration, staining or any change in gloss may be observed when expose to chemicals. This will be considered resistant as long as there is no deterioration and reduction of paint film properties and integrity.

2) Above results were based on 1457 Misty Grey colour. Result may vary marginally from colour to colour.

COMMERCIAL CAR PARKS / LININGS CAR PARK DECK SYSTEM | CAR PARK FLOORING



In this modern era, car parks are scattered across metropolitans to cater the needs of the people there. With the improvement of the automotive industry, many people now own cars for their daily usage. Due to this, car parks are high in demand in places such as office complexes, airports, tourism attractions, and even residential areas.

There are a variety of car parks but the most common carparks are the multi-story car parks above and below ground. An important feature about these car parks is the flooring due to the heavy traffic and the weathering conditions. Another feature is the ability to reflect light to ensure the car parks are well lit to ensure line markings and pedestrians can be seen clearly.

Nippon Paint Car Park Deck System have a variety of solutions for multi-story car parks and even car parks exposed to the weather conditions. Furthermore, the Nippon Paint FloorShield series includes floor markings for the road and car park lines for a clear visual for line markings.

CAR PARK DECK ID

Intermediate Deck

UV-Resistant Standard Car Park System



Abrasion



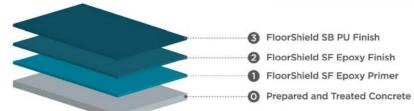
Protection



Chemical Resistance



Attractive





Also Available:

For Anti-Skid Purpose **ORANGE PEEL SYSTEM BROADCAST SAND SYSTEM PU ANTI-SKID SYSTEM**

For Matt Finishing Add one coat of FloorShield WB PU Clear Matt

CAR PARK DECK BD **Basement Deck**

Epoxy Mortar Moisture Barrier Car Park System



Moisture

Resistance



Abrasion Resistance



Attractive





For Anti-Skid Purpose **ORANGE PEEL SYSTEM BROADCAST SAND SYSTEM** PU ANTI-SKID SYSTEM

For Matt Finishing Add one coat of FloorShield WB PU Clear Matt

CAR PARK DECK ED

Exposed Deck

Waterproofing Car Park System



Waterproofing





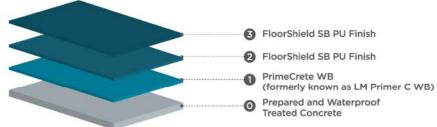




Protection



Chemical Resistance





Also Available:

For Anti-Skid Purpose **ORANGE PEEL SYSTEM BROADCAST SAND SYSTEM** PU ANTI-SKID SYSTEM

Add one coat of FloorShield WB PU Clear Matt







CAR PARK ANCILLARIES (Lining / Marking)

UV-Resistant Car Park Lining & Marking



Abrasion Resistance









3 FloorShield SB PU Finish

2 FloorShield SB PU Finish

Prepared and Treated Concrete

Protection





For Matt Finishing Add one coat of FloorShield WB PU Clear Matt

	D MINT	D MINO	D MINO
SYSTEMS	CAR PARK DECK ID Intermediate Deck	CAR PARK DECK BD Basement Deck	CAR PARK DECK ED Exposed Deck
NO. OF COATS*	4	5	4
TOTAL THICKNESS (MM)*	0.5 - 0.6	5.0 - 5.5	0.3 - 0.5
ABRASION STRENGTH (ASTM D4060)	< 80mg / 1000 cycles	< 80mg / 1000 cycles	< 80mg / 1000 cycles
ADHESION STRENGTH (ASTM D4541)	> 1.5N/mm²	> 1.5N/mm²	>1.5N/mm²
UV LIGHT RESISTANCE	Excellent (Non-Yellowing)	Excellent (Non-Yellowing)	Excellent (Non-Yellowing)
SHORE D HARDNESS (ASTM D2240)	>75	>80	•
COMPRESSIVE STRENGTH (ASTM C579)	> 85MPa	> 40MPa	~
FLEXURAL STRENGTH (ASTM C580)	> 40MPa	> 20MPa	-

SYSTEMS	Car Park Ancillaries (Lining / Marking)
NO. OF COATS	3
TOTAL THICKNESS (MM)	0.35
ABRASION RESISTANCE (ASTM D4060)	< 80mg / 1000 cycles
ADHESION STRENGTH (ASTM D4541)	> 1.5N/mm²

NOTE: All coating systems represented here are recommendations only and may vary from case to case. "Subjected to type of system or finishing.





In many residential parks or apartments, community courts are available for multiple uses. Besides the occasional events or gathering, outdoor sports may also be conducted regularly in these courts. Therefore, the flooring of these courts has to be safe for multiple uses for a variety of events.

Our Nippon Paint FloorSports solutions come in a wide range of colours to suit the purpose of the court. Furthermore, our coating solutions provide excellent water resistance and non-skid properties which is essential in a tropical climate. For example, our FloorSports 1K Epoxy Hybrid system has a certified pace rating based on the International Tennis Federation (ITF).

FLOORSPORTS 1K Epoxy Hybrid (Anti-Slip)







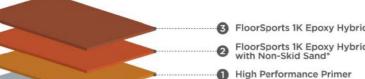
Good Durability

Anti-Slip Acrylic Epoxy Hybrid Sports Court System





Protection



S FloorSports 1K Epoxy Hybrid PloorSports 1K Epoxy Hybrid with Non-Skid Sand*



For improved performance & durability, Add one coat of FloorShield WB PU Clear Matt

1 High Performance Primer

O Prepared and Treated Concrete

*Non-Skid Sand will differ with different application method (Roller or Trowel)

FLOORSPORTS MASTIC



Mastic Integrated Acrylic Epoxy **Hybrid Sports Court System**



Easy to



Good Durability



Absorption



Resistance



Protection





For improved performance & durability, Add one coat of FloorShield WB PU Clear Matt

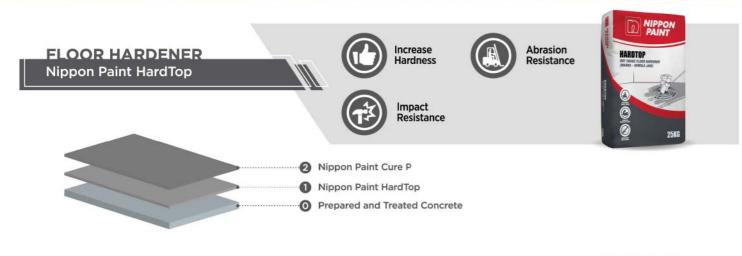
Prepared and Treated Surface

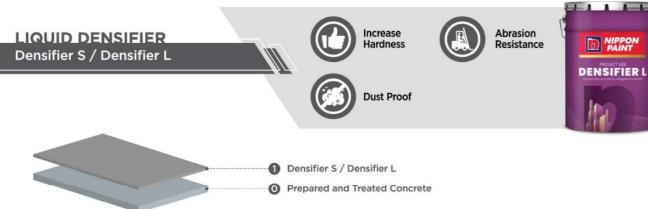
	TION TO MENT	FLOORS PORTS	TLOOREPORTS
SYSTEMS	FLOORSPORTS 1K Epoxy Hybrid	FLOORSPORTS 1K Epoxy Hybrid (Anti-Slip)	FLOORSPORTS MASTIC Shock Absorbance System
NO. OF COATS	3	3	4
TOTAL THICKNESS (MM)	0.15 - 0.20	1.4 - 2.2	2-3
ABRASION STRENGTH (ASTM D4060)	< 100mg	< 100mg	< 100mg
SHORE D HARDNESS (ASTM D2240)	55	55	< 55
ADHESION STRENGTH (ASTM D4541)	< 1.5N/mm²	< 1.5N/mm²	< 1.5N/mm²
ELONGATION (ASTM D638)	12%	12%	*
TENSILE STRENGTH (ASTM D638)	8.40N/mm²	8.40N/mm²	-

FLOOR HARDENER & LIQUID DENSIFIERS

UNDERLAYMENT

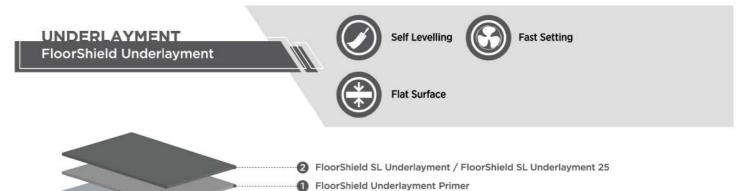






For hardening and strengthening freshly place concrete, Nippon Paint offers dry shake non-metallic floor hardeners, sodium or lithium liquid densifier which forms a dense and hard concrete surface





Nippon Paint offers underlayment solutions that can range from 3mm up to 50mm thickness to achieve a high strength, stable and flat sub-floors for installation of new overlayments (carpet, tiles, vinyl, etc,).

O Prepared and Treated Concrete

CHEMICAL RESISTANCE CHART

This chart serves as a guide for Nippon Paint FloorShield industrial flooring range to select the best products for chemical environments. The results below were conducted under laboratory testing under prolonged durations. In practical situations, chemicals only attack the surface of flooring systems where maintenance protocols are practiced, which significantly shortens exposure time.

		FLOORSHIELD SB PU Finish	FLOORSHIELD SF Epoxy Finish	FLOORSHIELD SL1 / SL2 Epoxy Finish	FLOORSHIELD Ucreed® MD & Ucreed® HD
CHEMICALS	%				
SODIUM HYDROXIDE	10 30 50	0	0	0	0
CALCIUM HYDROXIDE	10 20	0	0	0	0
AMMONIA	10 20	0	0	0	0
SULPHURIC ACID	5 10 20	0	•	0	0
NITRIC ACID	5 10 20	0	x x	x x	0
PHOSPHORIC ACID	5 10 20	0		•	0
GLACIAL ACETIC ACID	5 10 20	0		:	0
HYDROCHLORIC ACID	5 10 20	0	0	0	0
SOLVENT					
METHANOL		0	0	•	0
ISOPROPANOL, IPA		0	0	•	0
XYLENE		0	0	•	0
METHYL ETHYL KETONE, ME TOLUENE	:K	0	0	X X	0

	FLOORSHIELD SB PU Finish	FLOORSHIELD SF Epoxy Finish	FLOORSHIELD SL1 / SL2 Epoxy Finish	FLOORSHIELD Ucreed* MD & Ucreed* HD
VEHICLE CHEMICAL	S			
DIESEL	0	0	0	•
PETROL	•	0	0	0
AIR COOLANT	0	•	0	0
BRAKE OIL	0	0	0	0
ENGINE OIL	0	0	0	0
SKYDROL (PE-5 / 500B-4 / LD-4)	•	•	x	•
FOOD SUBSTANCES				
CITRUS JUICE	0	0	0	0
MILK	O	0	0	0
BEER	0	0	0	•
COFFEE / TEA	0	0	0	•
SOY SAUCE	0	0	0	0
VEGETABLE OILS	0	0	0	•
CARBONATED DRINKS	0	0	0	0
ANIMALS OILS	0	0	0	0
OTHERS				
SEAWATER	O	0	0	0
DISTILLED WATER	0	0	0	0
DEIONIZED WATER	0	0	0	•
UREA	0	0	0	0

Excellent Resistance
Long term resistant assuming reasonable cleanliness standards

Limited Resistance
 Short term resistant assuming infrequent and short-term contact

X No Resistance Floor is attacked upon contact with chemical

NOTE: 1) Discoloration, staining or any change in gloss may be observed when expose to chemicals. This will be considered resistant as long as there is no deterioration and reduction of paint film properties and integrity.

2) Above results were based on 1457 Misty Grey colour. Result may vary marginally from colour to colour.

PROJECT REFERENCE

















- 1. Basketball Court @Veranda Residences, Johor Bahru
- 2. The Sky Condo, Penang
- 3. Badmintion Courts @SJKC Nan Kwang, Kedah
- 4. Pickleball Court, Kuala Lumpur
- 5. Ideal Residency Sales Gallery, Penang
- 6. Sime Darby Oil, Port Klang
- 7. Plaza Masyur, Kuala Lumpur
- 8. Bridge Data Centres, Selangor

















9	10	
11	12	
13	14	
15		

- 9. Renaissance Hotel, Kuala Lumpur
- 10.KLIA Aerotrain M&E Services Room, Kuala Lumpur
- 11. Myvax Sdn Bhd, Nilai
- 12. Tabung Haji, Kuala Lumpur
- 13. Soyfresh Factory, Selangor
- 14.Ouji Sekken, Nilai
- 15. Core Residence TRX, Kuala Lumpur

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