



Propan Industrial Solutions

 **propan**
The Paint Specialist



@propanraya



Propan Raya ICC

We Bring You More Solutions For Your Environment and Satisfaction

It's not just about offering a product, our sales force will work with you to find the ideal solution for industrial environment.

Abrasion Resistant | Chemical Resistant | Corrosion Protection | Durable | Easy to Clean | Enhance Aesthetics | Impact Resistant | Low VOC | Seamless | Slip Resistant | Stain Resistant | Static Electric Control | Thermal Shock Resistant

Polymer Flooring

- Polyurethane Concrete Flooring System
- Epoxy Flooring System
- Anti Static / ESD (Electro Static Discharge) Flooring System
- Decorative Flooring System

Wall Paint

- Interior System
- Exterior System

Protective Coatings

- New Construction System
- Maintenance & Repair System

We Provide Solutions For The Following Market Segments :



Pharmaceutical



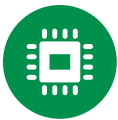
Food & Beverage



Warehouse / Logistic



Automotive



Electronic / Data Center



Tobacco



Pulp & Paper



Aerospace



Oil & Gas and Mining



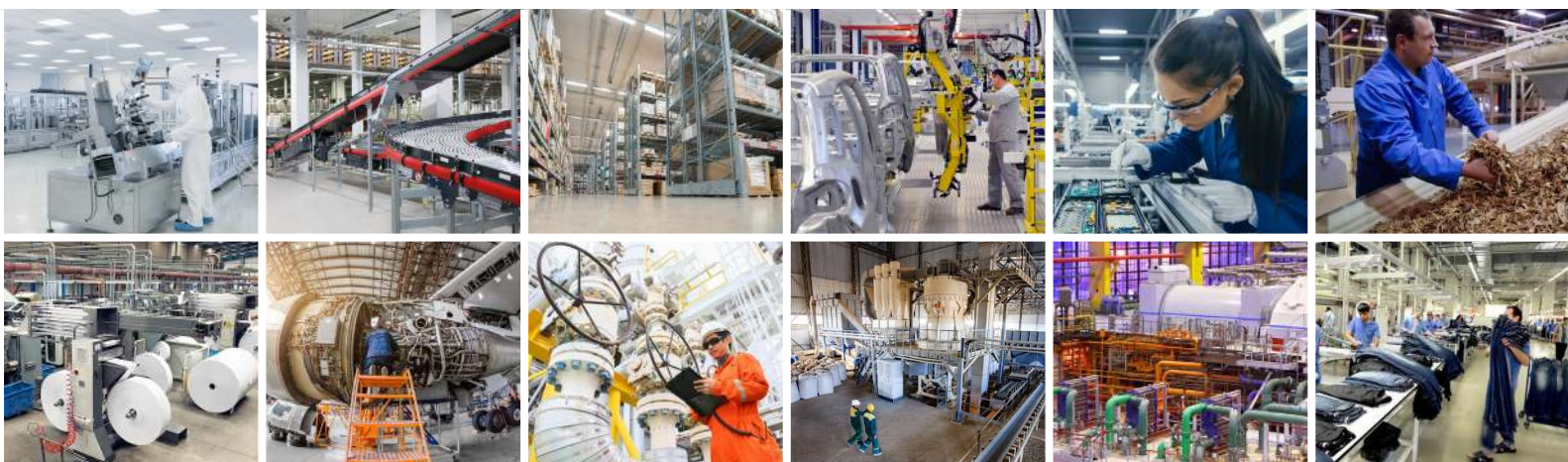
Fertilizer



Power Generation



Textile





Polymer Flooring

Requirement Solutions Of Polymer Flooring

Area	Typical Environment	Recommended System
 Freezer, Cold Storage, Cooking Area	• Extreme temperature -45°C to 120°C • Thermal Shock • Medium to high traffic load	Polyurethane Concrete Flooring System (Polyfloor PU XT 615)
 Wet Processing Area, Warehouse, Loading Dock	• Wet and damp condition • Slippery • Medium to high traffic load	Polyurethane Concrete Flooring System (Polyfloor PU HT 613)
 Clean Room, Laboratory, Dry Processing Area	• Dust free • Chemical spillage • Hygienic and easy to clean • Low to medium traffic load	Epoxy Flooring System (Polyfloor EP HQ 213)
 Electronic & Weaponry	• Sensitive to static electricity • Explosion potential • Dust free	Epoxy Antistatic Flooring System (Polyfloor ESD 293 C) (Polyfloor ESD 293 D)
 Office, Corridor	• Clean and aesthetic • Low to medium traffic load	Decorative Flooring System (Deflakes)

Polyurethane Concrete Flooring System



POLYFLOOR PU MT 611 / PU HT 613 / PU XT 615

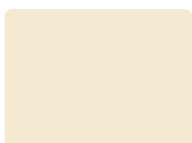
Water based polyurethane concrete flooring system is recommended for area that have extreme environment such as heavy load traffic, wet environment, hot & cold service temperature.



Product Selection Guide

	Polyfloor PU MT 611	Polyfloor PU HT 613	Polyfloor PU XT 615
Traffic Load	Medium Traffic	Medium to High Traffic	Heavy Traffic
Service Temperature	0°C to 60°C	-5°C to 70°C (3mm) -15°C to 90°C (4mm)	-25°C to 100°C (6mm) -40°C to 120°C (9mm)
Available Thickness	2mm	3mm to 4mm	6mm to 9mm
Typical Area	Food & Beverage Industry Packaging Area	Food & Beverage Industry Wet Processing Area & Cold Storage	Food & Beverage Industry Extreme Temperature Area Freezer Room
Material Type	Polyurethane Self Levelling	Polyurethane Self Levelling	Polyurethane Mortar

Recommended Color Selections



Ivory



Grey



Cream



Yellow



Green



Blue

**Color presented are as close as modern printing techniques allow*

Epoxy Flooring System



POLYFLOOR EP HQ 213 / EP SF 215 / EP 253

Epoxy flooring system is recommended floor topping for area that need good abrasion, excellent adhesion, good chemical resistant, and good resistant against fungus and bacteria.

Good Fungus and Biological Resistant
Hygienic

Good Chemical Resistant 2
Strong Film Layer

Excellent Abrasion Resistance 3
Durable

Excellent Adhesion 4
Long Lasting



Product Selection Guide

	Polyfloor EP HQ 213	Polyfloor EP SF 215	Polyfloor EP 253
Material Type	Epoxy Solvent Free	Epoxy Solvent Free	Epoxy Solvent Based
Typical Industry	Pharmaceutical	Non Pharmaceutical	Non Pharmaceutical
Gloss Level	High Gloss (85 - 95%)	Gloss (80 - 85%)	High Gloss (85 - 95%)

Recommended Color Selections



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Anti Static / ESD (Electro Static Discharge) Flooring System



POLYFLOOR ESD 293 C / ESD 293 D

Anti Static / ESD (Electro Static Discharge) Flooring System is recommended for operational areas that require a floor that can transmit electro static to earth.

Solvent Free No Odor	1	Electro Static Discharge Safety and Prevent Loss	2	Excellent Impact Resistant Protect Concrete Floor From Spall	3	Self Smoothing Smooth Finish	4
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Product Selection Guide

	Polyfloor ESD 293 C	Polyfloor ESD 293 D
Resistivity Requirement	Conductive $1.0 \times 10^1 - 1.0 \times 10^9 \Omega$ (ASTM F150)	Dissipative $>1.0 \times 10^9 - 1.0 \times 10^{10} \Omega$ (ASTM F150)

Recommended Color Selections



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Decorative Flooring System



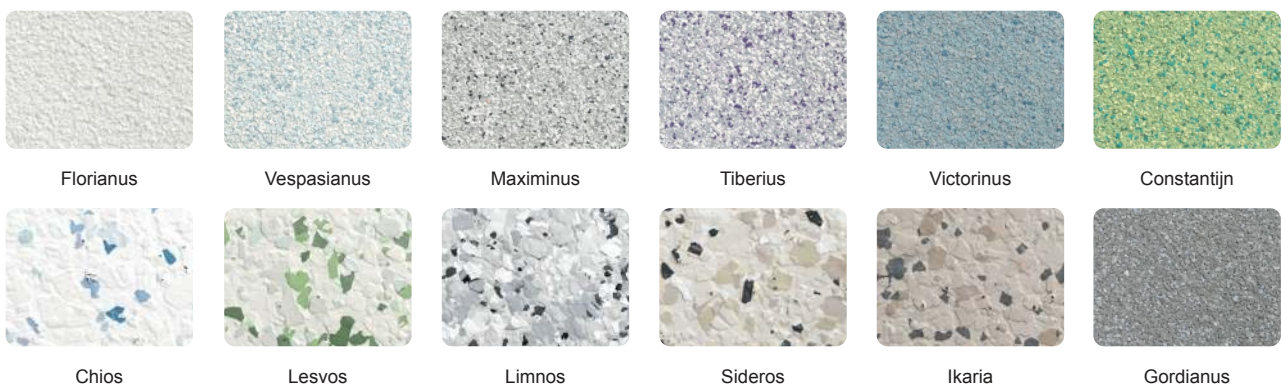
DEFLAKES

Decorative Flooring System that combines epoxy resin with a sprinkling of acrylic paper. Availability in a variety of color and size of flakes, forms a strong seamless and aesthetically pleasing flooring system that suitable for industrial and commercial environments

Variety of Color Flakes Enhance the Beauty of Workplace	Long Lasting Color Resist Color Change	Excellent Abrasion Resistance Durable	Excellent Impact Resistant Protect Concrete Floor From Spall	Excellent Adhesion Long Lasting
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Recommended Color Selections



**Color presented are as close as modern printing techniques allow*



Wall Paint

Industrial Wall Paint Selection



INTERIOR	Durasafe PU DS-880**	Polyfloor EP Wall 223	Decor Acrylic Enamel DAE-560 WB**	Eco Emulsion EE-4010
Material	Polyurethane Acrylic	Epoxy Solvent Free	Acrylic Enamel	Acrylic Emulsion
Finish	Gloss & Matt	High Gloss	Gloss	Matt
Antibacterial by Microban®	v	x	x	x
Easy to Clean	v	v	v	x
Chemical Resistance	v	v	x	x
Ideal Usage	Production Area High Hygiene Area	Production Area High Hygiene Area	Hygiene Area	Non Hygiene Area
Note : Durasafe PU DS-880 & Polyfloor EP Wall 223 are Food Grade Approved Eco Emulsion EE-4010 & Decor Acrylic Enamel DAE-560 WB are Singapore Green Label Certified				

** Available for exterior & interior

EXTERIOR	Decorflex DF-97	Decorshield DW-500	Duratex PU WB DRX-870	Decor Acrylic Enamel DAE-550 SB*
Material	Polymer Acrylic Elastomeric	Acrylic Emulsion	Polyurethane Acrylic	Acrylic Enamel
Finish	Low Sheen	Low Sheen	Gloss	Gloss
Weather Resistance	v	v	v	v
Hairline Crack Bridging	v	x	x	x
Dirt Pickup Resistance	v	v	v	v
Fungal Resistance	v	v	v	v
Note : All Exterior Products are Singapore Green Label Certified				

* Available for exterior & interior

Interior Wall Paint

DURASAFE PU DS-880

Polyurethane acrylic water based hygienic wall protection incorporated with Microban Silver Shield® technology, prohibiting bacterial and fungal growth, easy to clean, color stable, odorless, available in semi gloss and matt finishes.

Ideal application for high hygiene area, cleanroom, production area, hospital, transportation, education.



Recommended Color Selections

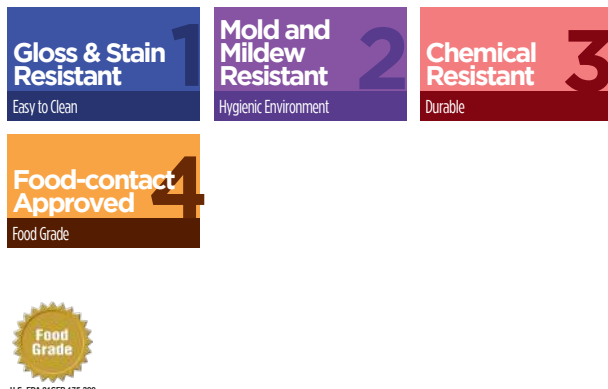


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POLYFLOOR EP WALL 223

Epoxy solvent free wall coating, food grade, gloss finish, designed for enhancing environments where hygiene and durable are required.

Ideal application for cleanroom, production area, laboratory, water tank or areas subjected to chemical spillage.



Recommended Color Selections



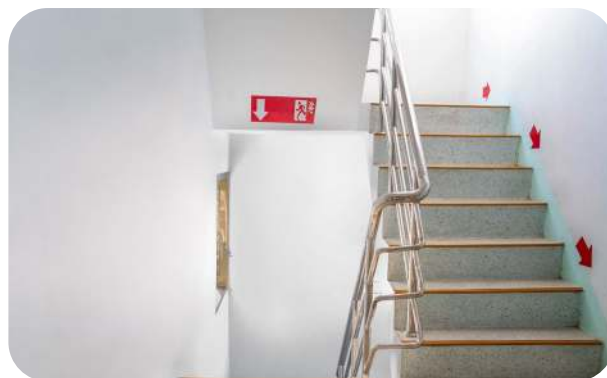
Other Colors : Check color card Polyfloor

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DECOR ACRYLIC ENAMEL DAE-560 WB

Water based acrylic gloss enamel wall paint, a solution for washable paint without saponification issue and easy to clean.

Ideal application for warehouse, corridor, packaging room and areas that requires hygiene environment.



Recommended Color Selections



Other Colors : Check color card Decor Acrylic Enamel

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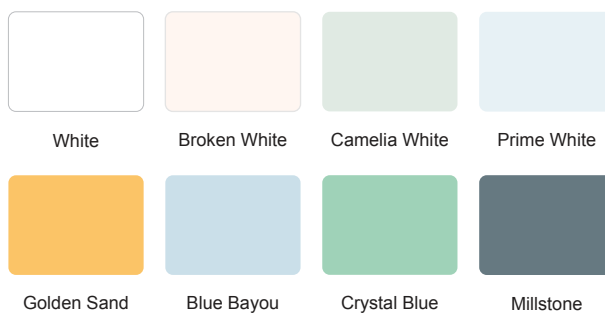
ECO EMULSION EE-4010

Acrylic emulsion wall paint with wide range of color selection, cost effective solution for enhancing esthetic finish.

Ideal application for non hygiene area.



Recommended Color Selections



Other Colors : Check color card Eco Emulsion, fan deck Fashion & Infinity 1001

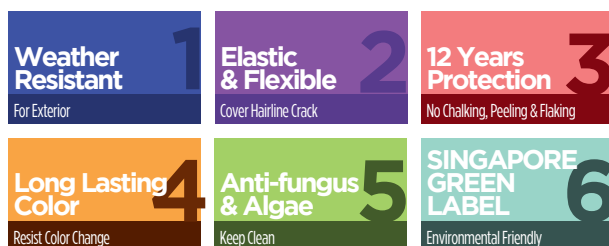
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Exterior Wall Paint

DECORFLEX DF-97

Durable elastomeric polymer acrylic exterior wall paint, good protection to water seepage due to crack substrate, excellent UV and weather resistance.

Ideal application for exterior wall where crack bridging is needed.



Recommended Color Selections



Other Colors : Check color card Decorflex

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DECORSHIELD DW-500

Pure acrylic emulsion exterior wall paint. It's a proven tropical weather shield paint. Incorporated with Teflar® tecnogy provided an excellent self dirt pickup to make the wall looks clean and aesthetic enhanced.



Recommended Color Selections



Other Colors : Check color card Decorshield

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DURATEX PU WB DRX-870

Water based polyurethane acrylic wall paint, excellent weather resistance, a long lasting color performance, impermeable surface and excellent self cleaning.



Recommended Color Selections



Other Colors : Check color card Duratex

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DECOR ACRYLIC ENAMEL DAE-550 SB

Solvent based acrylic gloss enamel wall paint, a solution for washable paint without causing the saponification, provide a gloss finish, easy to clean to provide clean environment.



Recommended Color Selections



Other Colors : Check color card Decor Acrylic Enamel

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Corrosivity category can be classified for environment into six categories based on ISO 12944

Corrosivity Category	Environment examples	
	Exterior	Interior
C1 Very low	-	Heated buildings with a clean atmosphere such as offices, shops, schools, hotels.
C2 Low	Atmospheres contaminated to a small extent, mainly rural regions.	Buildings which are not heated, where condensation may occur e.g. storage facilities, sports halls.
C3 Medium	Industrial and urban atmospheres with a low sulphur oxide (IV) contamination level. Inshore areas of low salinity.	Production halls to facilities humidity and certain air contamination e.g. foodstuff plants laundries, breweries, dairies.
C4 High	Industrial areas and inshore areas of medium salinity.	Chemical plants, swimming pools, ships repair yards.
C5 Very High	Industrial areas of high humidity and aggressive atmosphere and inshore areas of high salinity.	Buildings and areas of almost constant condensation and high contamination.
CX Extreme*	Offshore areas of high salinity or industrial areas of extremely high humidity and aggressive atmosphere or subtropical and tropical areas.	Buildings and areas of almost constant condensation and aggressive contamination.

Protective Coating

Coating System for New Construction



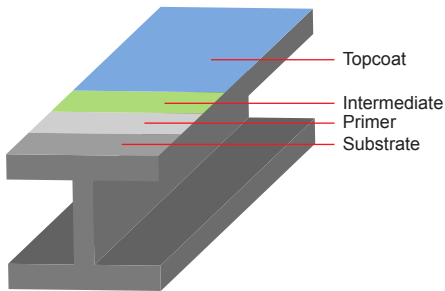
2-coat Alkyd System



2-coat Epoxy PU System



3-coat System



Area Category	C1, C2, C3	C1, C2, C3, C4	C4, C5, CX
Coating Step	2-coat Alkyd System	2-coat Epoxy PU System	3-coat System
	Surface preparation		
Primer	Alkyd Primer AP-291	Epoxy primer EDP-551	Inorganiz Zinc IOZ-70200
Intermediate	-	-	Epoxy MIO EPU-30200
Top Coat	Alkyd Topcoat Zebra Synthetic	PU Color PUT-603	PU Color PUT-50800

Products	Description
Alkyd primer AP-291	Fast dry alkyd primer containing zinc phosphate for corrosion inhibiting pigments
Zebra Synthetic	Alkyd topcoat suitable for all interior and exterior applications, high gloss and fast dry synthetic enamel, good hiding power and good weather resistance.
Epoxy Primer EDP-551	High build polyamide cured epoxy primer containing zinc phosphate for anti corrosion pigment.
PU Color PUT-603	Two component aliphatic polyurethane, good resistance to splash of mild chemicals, water, impact, and abrasion, excellent gloss resistance, non yellowing, non chalking and easy to clean
Inorganic zinc IOZ-70200	Self curing inorganic zinc silicate primer for the protection against corrosion with high zinc content, excellent solvent, abrasion resistance and can be used in atmospheric Environments
Epoxy MIO EPU-30200	Two component epoxy with MIO (micaceous iron oxide). This product has excellent corrosion resistance and excellent adhesion with extended.
Prothane Top PUT-50800	Prothane Top PUT-50800 is a two-component polyurethane enamel made from polyurethane aliphatic acrylic.

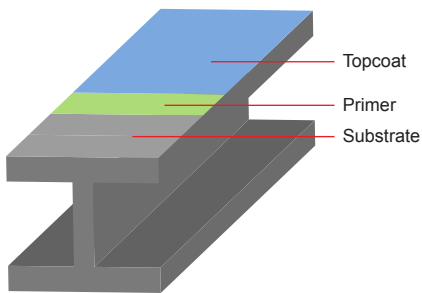
Coating System for Maintenance & Repair



Alkyd 2in1 System



Mastic-PU System



Existing Paint	Alkyd	Polyurethane
Coating Step	Alkyd 2in1 System	Mastic-PU System
	Surface preparation	
Primer	PRIMTOP 88	Epoxy Mastic EPM-60110
Top Coat	PRIMTOP 88	Prothane Top PUT-50800

Products	Description
PRIMTOP 88	2 in 1 anti corrosion paint. In one package content of anti corrosion primer and top coat. It is designed for metal surfaces, suitable for all interior and exterior applications
Epoxy Mastic EPM-60110	two component modified epoxy surface tolerant paint. This product is used as anti corrosion paint for ship bottom, cargo hold, inside or outside of accommodation space, void space, cofferdam, engine room, pipe line, others steel structure etc. Its can be use for maintenance and repair
Prothane Top PUT-50800	Prothane Top PUT-50800 is a two-component polyurethane enamel made from polyurethane aliphatic acrylic



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08111 381 686