

TECHNICAL DATA SHEET

FLOORGUARD PU 137

FLOORGUARD HB POLYURETHANE SG

DESCRIPTION:	A high performance , two component , non yellowing isocyanate cured polyurethane with excellent gloss & colour retention. It has good chemical , abrasion and impact resistance.	
RECOMMENDED USE:	As a final coat or coats in conjunction with epoxy floor coating system. It can be used as a top coat where the area is exposed to direct sunlight and various levels of mechanical and chemical exposure. Can be used in part of the traffic deck system, for areas such as parking bays, industrial floors, car parks, ramps, etc 1. Hospitals 2. Dairies 3. Warehouses 4. Chemical plants 5. Car parks 6. Meat & poultry plant 7. Food stuff storage 8. Splash zone areas on Offshore Platforms	
RESISTANCE TO:	Moisture – Good Aliphatic solvents - Good Acid spillage – Good Impact resistance - Good	Abrasion - Good Alkali spillage - Moderate Weather- Excellent
PRODUCT INFORMATION:	<p>Colour availability Limited</p> <p>Finish Semi-gloss</p> <p>Volume solids % 60±2 % (ASTM-D2697-86)</p> <p>V.O.C. 340 g/l (NB. – Thinning will affect VOC compliance and volume solids)</p> <p>Typical thickness DFT 50-75 microns</p> <p>Theoretical coverage 12m²/ Litre @ 50 microns DFT</p> <p>Flash point Base : 24°C C/A : > 32°C</p> <p>Mixing ratio 4 parts base to 1 part curing agent by volume</p> <p>Shelf life 24 months from the date of manufacture.</p> <p>Pot life 2 hours @ 35°C</p> <p>Pack size 20 and 5 Litres units when mixed.</p> <p>PACKAGE A two component material supplied in separate containers to be mixed prior to use</p>	
SERVICE TEMPERATURE:	120°C Maximum Dry.	
RECOMMENDED THINNER:	Thinner No.7(10%)	

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FILM THICKNESS AND SPREADING RATE	MIN.	MAX.	UNIT
Dry film thickness	50	75	μm
Wet film thickness	83	125	μm
Spreading rate-theoretical	10.6	8	(m ² /l)

DRYING & CURING TIME:

SUBSTRATE TEMPRATURE

	15°C	23°C	35°C
Touch dry	3 hours	2 hours	1 hours
Dried to over coat (minimum)	12 hours	10 hours	8 hours
Dry to walk	36 hours	30 hours	24 hours
Hard dry-Full cure	7 days	7 days	7 days

SURFACE PREPARATION:

New concrete should be allowed to cure for at least 28 days. Remove all grease, oil and other foreign materials by scrubbing with a heavy duty concrete cleaner. On permanent coatings it is recommended that the surface be roughened with suitable mechanical devise.

On metal surface, an abrasive sandblast is required to make the metal absolutely free from loose particles, mil scales and dead metals. Surface should be clean and sound before painting.

RECOMMENDED COATING SYSTEM:

PRIMER	FLOORGUARD 230 (concrete), PERMAGUARD P270 (steel)
INTERMEDIATE	FLOORGUARD 460 / FLOORGUARD 5000 / FLOORGUARD 5001
TOPCOAT	FLOORGUARD PU 137

RECOMMENDED APPLICATION METHODS:

Airless Spray, trowel, roller or brush (touch-up)

APPLICATION EQUIPMENT DETAILS:

AIRLESS SPRAY:

Nozzle Size: 0.33mm (13 thou)
Fan Angle: 65°
Operating Pressure: 210kg/cm² (3000 psi)

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APPLICATION CONDITIONS AND OVER COATINGS:

New concrete should be allowed to cure for a minimum of 30 days and have a moisture content of less than 5%. Very dense, non porous or chemically treated concrete may require acid etching, abrasive blasting or sanding for optimum adhesion. This material should preferably be applied at temperatures in excess of 10°C. In conditions of high relative humidity, i.e. 80-85%, good ventilation conditions are essential. Substrate temperature should be at least 3°C above the dew point and always above 0°C. At application temperatures below 10°C, drying and curing times will be significantly extended, and spraying characteristics may be impaired. Application at ambient air temperatures below 5°C is not recommended.

HEALTH AND SAFETY:

Please observe the precautionary notices displayed on the container. Do not breathe or inhale mist. Avoid skin contact. Spillage on the skin should immediately be removed with suitable cleanser, soap and water. Eyes should be well flushed with water and medical attention sought immediately. Consult Product Health and Material Safety Data Sheet for information on safe storage, handling and application of this product.

Disclaimer: The information in this document is given to the best of KPC Paint's knowledge that based on laboratory testing and practical experience Products are often used under conditions beyond KPC's control and KPC Paints cannot guarantee anything but the quality of the product itself.