

TECHNICAL DATA SHEET

FLOORGUARD 5001

FLOORGUARD SF EPOXY SL COATING

DESCRIPTION: A two component, amine cured solvent free epoxy coating based on inorganic minerals offers good chemical and abrasion resistance.

RECOMMENDED USE: The system is designed for steel decks and concrete floors subjected to medium foot and rubber-tired vehicle traffic. Also suitable for walls and areas of the intermittent chemical spills and power washing. Ideally suited for use in:

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| 1. Hospitals | 2. Dairies | 3. Warehouses |
| 4. Chemical plants | 5. Car parks | 6. Meat & poultry plant |

APPROVALS AND CERTIFICATES

Determination of compressive strength – ASTM C579
 Determination of tensile strength – ASTM C307
 Determination of water permeability – BSEN 12390-8:2009
 Determination of shore 'D' hardness – ASTM D 2240
 Additional certificates and approvals may be available on request.

PRODUCT INFORMATION:

Color availability: Grey & Limited colors
 Finish: Gloss
 Volume solids %: 100 % (ASTM-D2697-86)
 V.O.C.: 0 g/l (NB.-Thinning will affect VOC compliance and volume solids)
 Flash point: Base: > 100°C C/A : > 100°C
 Mixing ratio: 2 parts bases to 1 part curing agent by volume
 Shelf life: 24 months from the date of manufacture.
 Pot life: 20 minutes @ 35°C
 Pack size: 15-liter unit when mixed.

FILM THICKNESS AND SPREADING RATE:	MIN.	MAX.
Dry film thickness	600μ	5000μ
Wet film thickness	600μ	5000μ
Spreading rate (m ² / Liter)	1.66	0.2

This figure makes no allowance for surface profile, uneven application, overspray or losses in containers and equipment. Film thickness will vary depending on actual use and specification. Please contact KPC technical team for applying higher DFT.)

SERVICE TEMPERATURE: 120°C Maximum Dry.

RECOMMENDED THINNER: Thinner is not required

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DRYING & CURING TIME:

SUBSTRATE TEMPRATURE	15°C	23°C	35°C
Touch dry	6 hours	4 hours	3 hours
Dried to over coat (minimum)	24 hours	20 hours	16 hours
Dry to walk	36 hours	30 hours	24 hours
Hard dry	7 days	7 days	7 days

SURFACE PREPARATION:

New Construction: Concrete floors, to be coated should be allowed to cure for at least 28 days. Floor should be sound, clean and free from oils, grease, mortar, loose particles, dust etc. Laitance should be removed using mechanical means such as vacuum recovery shot blasting. Moisture content should be less than 5%.

Existing substrate: All contamination must be removed, and a sound clean substrate should be exposed. Mechanical means of preparation are preferred followed by the removal of dust and other loose debris using an industrial vacuum. All cracks and minor damage-surface should be repaired and allow to dry prior to priming.

RECOMMENDED COATING SYSTEM:

PRIMER	FLOORGUARD 230 (concrete), PERMAGUARD P270 (steel)
PUTTY	PERMAFILL F 202 / PERMAFILL F 303
TOPCOAT	FLOORGUARD 5001

RECOMMENDED APPLICATION METHODS: Airless Spray, trowel, roller or brush (touch-up)

APPLICATION EQUIPMENT DETAILS:

AIRLESS SPRAY:	Nozzle Size: 0.44mm (18 thou) Fan Angle: 40° Operating Pressure: 115kg/cm ² (2200 psi)
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MIXING INSTRUCTIONS:

Materials are supplied in two containers, Base and Curing Agent. Stir thoroughly both the materials separately using a power agitator. Then add complete contents of Curing agent to Base whilst using the power agitator to mix properly. Use the mixed material within the specified working pot life.

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

NON-SLIP FINISH:

If a non-slip surface is required, then apply primer coat first. While the coat is still wet broadcast KPC's Non-slip Aggregate to the required density. Allow curing to initial hardness, 4-6 hours, and vacuum clean the excess aggregate. Apply the topcoat using a medium haired roller and ensure that a continuous film is achieved while ensuring that the aggregate is completely sealed.

HEALTH AND SAFETY:

Please observe the precautionary notices displayed in 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 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.

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