

## TECHNICAL DATA SHEET

### FLOORGUARD 460

#### FLOORGUARD EPOXY TOPCOAT

##### DESCRIPTION:

A two pack chemical resistant topcoat based on polyamide cured epoxy resin for concrete floors. The fully cured film has good adhesion to concrete floors and good resistance to water. It has good flow and resistant to splash and spillage of mild chemicals and solvents. It has good abrasion and impact resistance and easy to clean.

##### 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:

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

##### APPROVALS AND CERTIFICATES

Determination of bond strength to host concrete – BS 1881

Determination of water permeability - DIN 1048

Determination of acid or alkali reaction – ASTM D543

Determination of shore 'A' hardness – ASTM D2240

Determination of taber abrasion , CS 17, 1000 g – ASTM D4060

Determination of compressive strength – ASTM C579

Additional certificates and approvals may be available on request.

##### PRODUCT INFORMATION:

Colour:	Light & dark Grey , Green and Red
Finish:	Semi-gloss & High-Gloss
Volume solids %:	65 ± 2 % (ASTM-D2697-86)
V.O.C.:	300 g/l (NB.-Thinning will affect VOC compliance and volume solids)
Density:	1.40 ± 0.1 g/cc (mixed)
Flash point	Base : 32°C      C/A : 32°C
Mixing ratio:	4 parts base to 1 part curing agent by volume
Shelf life:	24 months from the date of manufacture.
Pot life:	6 hours @ 35°C
Pack size:	20 & 5 Litres unit when mixed

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### FILM THICKNESS AND SPREADING RATE: MIN. MAX. UNIT

Dry film thickness	100	200	μm
Wet film thickness	154	308	μm
Spreading rate	6.45	3.25	m <sup>2</sup> /l (theoretical)

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.

**SERVICE TEMPERATURE:** 120°C Maximum Dry.

**RECOMMENDED THINNER:** Thinner No.5 (5-10%)

### DRYING & CURING TIME:

SUBSTRATE TEMPERATURE	15°C	23°C	35°C
Touch dry	3 hours	2 hours	1 hours
Dried to over coat (minimum)	6 hours	4 hours	3 hours
Hard dry	42 hours	36 hours	24 hours

### SURFACE PREPARATION:

For Steel : Remove all oil and grease in accordance with SSPC-SP1 1. Manually prepared surfaces should be prepared in accordance with SSPC-SP3 or SSPC-SP2. 2. Abrasive blast clean to a standard of SA 2.5. Average surface profile of 50 - 100 microns. Use Permaguard P 270 as blast primer for steel.

For Concrete: Remove all oil and grease in accordance with SSPC-SP 1 Manually prepared surfaces should be prepared in accordance with SSPC- SP 3 or SSPC-SP 2. Use Floorguard 230 as sealer coat.

### RECOMMENDED COATING SYSTEM:

PRIMER	FLOORGUARD 230 (concrete), PERMAGUARD P270 (steel)
PUTTY	PERMAFILL F 202 / PERMAFILL F 303
TOPCOAT	FLOORGUARD 460

### RECOMMENDED APPLICATION METHODS:

Brush, Roller, Airless spray & Conventional spray

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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 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.