

Technical Data Sheet: Ref: TDS-HPC-0001-V02

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Date of issue: June 2017

## A414-3003

### SF POLYURETHANE FLOOR ENAMEL (Elastic)

<b>GENERIC TYPE</b>	Polyurethane																								
<b>DESCRIPTION</b>	A414-3003 is two component, exterior/interior, low VOC, SF, polyester-aliphatic urethane <b>elastic floor coating</b> . Provides a high gloss, excellent chemical resistance, color retention, and chalk resistance.																								
<b>RECOMMENDED USE</b>	Recommended as a topcoat as part of military, sport area, textile, airports, and so on. -Resists splash, spillage, and fumes of dilute acids, alkalis, solvents, and fuels.																								
<b>FEATURES</b>	<ul style="list-style-type: none"> <li>- Very good elasticity</li> <li>-Superior exterior color and gloss retention</li> <li>-Abrasion and impact resistant</li> <li>-Very good adhesion properties</li> <li>-Outstanding application properties</li> <li>-Outstanding resistance a wide range of chemical, weather, and mechanical conditions</li> </ul>																								
<b>PHESICAL PROPERTIES</b>	<table border="1"> <tr> <td>Finish</td> <td>Gloss</td> </tr> <tr> <td>Color</td> <td>Upon request</td> </tr> <tr> <td>Solid by volume</td> <td>98±2%</td> </tr> <tr> <td>Specific Gravity</td> <td>1.5±0.1 gr/cm<sup>3</sup></td> </tr> <tr> <td>Flash point</td> <td>&gt; 55 °c</td> </tr> <tr> <td>Recommended D.F.T.</td> <td>750-2000 microns</td> </tr> <tr> <td>Theoretical coverage</td> <td>1.33-0.48 m<sup>2</sup> / Lit</td> </tr> <tr> <td></td> <td>Practical coverage depends on loss factor</td> </tr> <tr> <td>Touch dry</td> <td>5 hrs. at 20°c</td> </tr> <tr> <td>Hard dry (vehicle traffic)</td> <td>48 hrs. at 20°c</td> </tr> <tr> <td>Full Cured</td> <td>7 days. at 20°c</td> </tr> <tr> <td>To Recoat</td> <td>Min 4 hrs. at 20°c , Max 36 hrs. at 20°c</td> </tr> </table>	Finish	Gloss	Color	Upon request	Solid by volume	98±2%	Specific Gravity	1.5±0.1 gr/cm <sup>3</sup>	Flash point	> 55 °c	Recommended D.F.T.	750-2000 microns	Theoretical coverage	1.33-0.48 m <sup>2</sup> / Lit		Practical coverage depends on loss factor	Touch dry	5 hrs. at 20°c	Hard dry (vehicle traffic)	48 hrs. at 20°c	Full Cured	7 days. at 20°c	To Recoat	Min 4 hrs. at 20°c , Max 36 hrs. at 20°c
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## APPLICATION

Application method	Airless Spray ,Putty knife, trowel, Roller
Surface temperature	3 °C min. above dew point
Mixing ratio(by weight)	4:1
Packaging(A+B)	16KG+4KG
Hardener(B)	A275-2007-1001
Thinner/Cleaner	Don't Need
Washing Thinner	A840-0414
Pot Life	(25 min. at 15 °c) – (15 min. at 25 °c) – (8 min. at 35 °c)
Application condition	Environment Temperature should be 10 °C min and 35 °C max Relative humidity: 65% maximum

## SURFACE PREPARATION

### A. NEW WORK:

#### 1. Concrete Floors:

- 1.1. The concrete should have been cured for at least 28 days and have moisture content of less than 4%.
- 1.2. Floors should be sound and free from loose materials and any contamination such as oil and grease that would prevent coating adhesion.
- 1.3. Excess laitance deposits should be removed by light mechanical scrubbing, grinding or grit/captive blasting followed by vacuum cleaning to remove dust debris.

### B. OLD CONCRETE FLOORS:

- 1.1. A sound, clean substrate is essential to achieve maximum adhesion.
- 1.2. Excess laitance deposits should be removed by light mechanical scrubbing, grinding or grit/captive blasting followed by vacuum cleaning to remove dust debris.

### C. Filling:

1. Fill the dents and cracks in the surface with mixture of 1 Part of Kansai Epoxy SF Floor Primer and 2 parts of Kansai Fine Aggregate or with Kansai Epoxy filler.

## APPLICATION PROCEDURE

Surface preparation must be completed as indicated.

Mix contents of each component thoroughly with low speed power agitation. Make certain no pigment remains on the bottom of the can. Then combine 4 parts by weight of Part A with 1 part by weight of Part B. Thoroughly agitate the mixture with power agitation. Allow the material to sweat-in as indicated. Re-stir before using. If an anti-slip finish is desired, the additive is mixed into the final coat just prior to application. If anti-slip is desired with Clear finish, it should be hand broadcast. A 3/4" pile roller is recommended for the final coat when anti-slip aggregate is used. .

## CAUTIONS

- Friable and powdery surfaces require special care before painting; if in doubt, contact manufacturer.
- For health reasons avoid dusting when preparing fiber cement surfaces. Keep surfaces wet and wash off residues with water.
- Do not paint under conditions of frost, dew, rain or fog or inclement weather.
- Note:** Painting under the above conditions may affect the performance of the paint film.
- Avoid painting during inclement weather or if temperature is below 10 °C.
- To ensure colors on a project are consistent check if the batch numbers and/or colors supplied are the same.

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## STORAGE

Store in dry, cool condition and away from sources of heat and ignition. Containers must be kept tightly closed. Store conditions shall be in accordance with national regulations.

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## SHELF LIFE

12 months from date of production.

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## GENERAL REMARKS

- Stripe coat all crevices, welds, and sharp angles to prevent early failure in these areas.
- When using spray application, use a 50% overlap with each pass of the gun to avoid holidays, bare areas, and pinholes. If necessary, cross spray at a right angle.
- Spreading rates are calculated on volume solids and do not include an application loss factor due to surface profile, roughness or porosity of the surface, skill and technique of the applicator, method of application, various surface irregularities, material lost during mixing, spillage, over thinning, climatic conditions, and excessive film build.
- Excessive reduction of material can affect film build, appearance, and adhesion.
- Do not apply the material beyond recommended pot life.
- Do not mix previously catalyzed material with new.
- In order to avoid blockage of spray equipment, clean equipment before use or before periods of extended downtime with Reducer A840-0414.
- Mixed coating is sensitive to water. Use water traps in all air lines. Moisture contact can reduce pot life and affect gloss and color.
- Additive of anti-slip aggregate produces only a light nonslip texture. Product should not be used in place of a nonskid finish when safety is a concern.
- Material cannot be sprayed if anti-slip aggregate is used. Shot blasted floors will require a high build primer.
- When rolling this product, always maintain a wet edge to avoid roller marks. Roll as close to any cut-in areas as possible to eliminate visual imperfections. Roller application must be from a roller tray, not by pouring the material onto the surface.
- Coated surfaces may discolor under tires due to tire plasticizer migration.

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## SAFETY PRECAUTIONS

- Keep out of reach of children.
- Ensure good ventilation during application and drying.
- In case of skin contact, wash with soap and water or a recognized skin cleaner.
- Avoid contact with eyes – In case of contact, rinse eyes immediately with plenty of water and seek medical advice if symptoms persist.
- Harmful if swallowed. Do not induce vomiting. Seek medical attention.
- Do not smoke while painting.
- Flammable. Store in a cool dry place away from heat and sparks.
- Refer to Material Safety Data Sheet for complete information.

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DISCLAIMER: The information given on this sheet is to the best of our knowledge and accurate at the time of issuing. Since conditions of use are beyond the manufacturer's control information contained herein is without warranty implied or otherwise and the suitability of the material for the use contemplated is the sole responsibility of the buyer. The information contained on this data sheet is subject to modification at any time due to our policy of modification and product development.