



**Green Polyurethane™ Indoor Floor Coating**  
**Technical Data Sheet:**  
**FLI4W – Grey**

Version 2.1: November 30, 2017

<b>PROPERTIES</b>	<b>UNIT</b>	<b>STANDARD</b>	<b>VALUE</b>
<b>General</b>			
Type of product	Two-component hybrid nonisocyanate epoxy-urethane compound		
Use	Compound for indoor abrasive, impact and chemical resistant floorings		
Substrate	Concrete, cement cover		
Primer	Conventional primer might be required for some substrates		
<b>Physical Properties</b>			
Ratio of components (Base "A" : Hardener "B")			100 A : 47 B <b>by weight</b>
Viscosity after mixing (Brookfield RVDV II, Spindle 29, 100 rpm) at 77°F (25°C)	cP (mPa·s)	ASTM D2196	≤1300
Density at 77° F (25° C): ❖ Base "A" ❖ Hardener "B"	lb/gal (g/cm <sup>3</sup> )	ASTM D1475	9.85±0.33 (1.18±0.040) 8.60 ±0.30 (1.031±0.036)
Color			Grey
Pot life at temperature:	min		59°F(15°C) 77°F(25°C) 40            20
Thickness of the coating	mils (mm)		10-120 (0.25-3)
Solids Content Part A	%		99-100
Volatile Content	%	ASTM D2369	0.5-1
Application temperature	°F (°C)		+ 59-77 (+ 15-25)
Curing time at temperature: ❖ Dry-To-Touch Time ❖ Walk on ❖ Full cure	°F (°C) hours hours days	ASTM D1640	59°F(15°C) 77°F(25°C) 8            4 30          20 10          5
<b>Performance Properties</b>			
Salt Spray		ASTM B117	No blistering at 1000hours of exposure



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<i>Pull-off Adhesion Bond Strength</i>	<i>psi</i>	<i>ASTM D4541</i>	<b>350-550</b> <i>Adhesion bond broke at the paint/substrate interface in all tests</i>
<i>Impact resistance</i>		<i>ASTM D2794</i>	<i>No crazing, or loss of adhesion at 40 inch pounds</i>
<i>Tensile strength at break</i>	<i>psi (MPa)</i>	<i>ASTM D638</i>	<b>4200-7100 (29-49)</b>
<i>Tensile Elongation at break</i>	<i>%</i>	<i>ASTM D638</i>	<b>5-10</b>
<i>Hardness (Shore D)</i>		<i>ASTM D2240</i>	<b>75-80</b>
<i>Bound strength to concrete substrate</i>		<i>ASTM D4541</i> <i>ACI 503.4-2322</i>	<b>Cohesive failure</b>
<i>Abrasion resistance</i> <i>(TABER, wheel CS-17, 1000g), loss of mass,</i>	<i>mg/1000 cycles</i>	<i>ASTM D4060</i>	<b>52.4</b>
<i>Coefficient of Friction</i>		<i>ASTM D2047</i>	<b>0.4-0.5</b>
<i>Thermal Testing</i>	<i>120 hours</i>	<i>ASTM C884/C884M</i>	<b>No cracking or delamination of samples</b>
<b>Chemical and Stain Resistance</b>			
<i>Water Absorption.</i> <i>Weight gain at immersion in water</i> <i>(24h at 77°F/25°C)</i>	<i>%</i>	<i>ASTM D570</i>	<b>0.1- 0.5</b>
<i>Water resistance, immersion</i>		<i>ASTM D870</i>	<b>No change in color or blistering</b>
<i>Hydrochloric acid – 10 % HCl</i>			<b>Gloss reduction</b>
<i>Battery acid</i>			<b>Gloss reduction</b>
<i>Sodium hydroxide – 10 % NaOH</i>			<b>No effect</b>
<i>Sodium sulfate – 10 % Na<sub>2</sub>SO<sub>4</sub></i>			<b>No effect</b>
<i>Gasoline</i>			<b>No effect</b>
<i>Diesel fuel</i>			<b>No effect</b>
<i>Motor oil</i>			<b>No effect</b>
<i>Skydrol (aviation hydraulic fluid)</i>			<b>No effect</b>
<i>Brake fluid</i>			<b>No effect</b>
<i>Transmission fluid</i>			<b>No effect</b>
<i>Hydraulic fluid</i>			<b>No effect</b>
<i>Vegetable oil</i>			<b>No effect</b>
<i>Alcohol</i>			<b>No effect</b>



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*Disclaimer*

*The data contained in this document are based on our current knowledge and experience, and is believed by the Company to be accurate at the time of preparation or prepared from sources believed to be reliable. In view of the many factors that may affect processing and application of our product, these data do not relieve processors from carrying out their own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose*