



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

**Technical Data Sheet**

Version 2.1 – November 07, 2017

| <b>PROPERTIES</b>  | <b>UNIT</b>   | <b>STANDARD</b>              | <b>VALUE</b>  |                             |
|--|---|------------------------------|---|-----------------------------|
| <b>General</b>   |   |                              |   |                             |
| Type of the product  | Two-component hybrid nonisocyanate polyurethane compound      |                              |   |                             |
| Use  | Compound for abrasive, impact and chemical resistant flooring |                              |   |                             |
| Substrate  | Concrete, cement cover  |                              |   |                             |
| Primer   | Conventional primer might be required for some substrates     |                              |   |                             |
| <b>Physical Properties</b>   |   |                              |   |                             |
| Ratio of components<br>(Base "A" : Hardener "B")                               |   |                              | <b>100A : 50B by weight</b>   |                             |
| Viscosity Part A<br>Viscosity Part B   | cP (mPa.s)  | ASTM D2196                   | < 2000 cP<br>180÷230  |                             |
| Density at 77° F (25° C):<br>- Base "A"<br>- Hardener "B"                      | lb/gal (g/cm <sup>3</sup> )                                   | ASTM D1475                   | 9.32 ±0.80 (1.117 ±0.096)<br>8.60 ±0.30 (1.031 ±0.036)                                    |                             |
| Color  |   |                              | Colorless   |                             |
| Pot life at temperature:<br><br>at 59° F (15° C):<br>at 77° F (25° C):         | min   |                              | 40<br>20  |                             |
| Thickness of the coating   | mils (mm)   |                              | 20÷40 (0.5±1)   |                             |
| Solids Content Part A  | %   |                              | 99-100  |                             |
| Volatile Content   | %   | ASTM D2369                   | 0.5÷1.0   |                             |
| Application temperature  | °F (°C)   |                              | + 59÷77 (+ 15÷25)   |                             |
| Curing time at temperature:<br>• Dry-To-Touch Time<br>• Walk on<br>• Full cure | hours<br>hours<br>days  | ASTM D1640                   | 59°F (15°C)<br>8<br>30<br>10  | 77°F (25°C)<br>4<br>20<br>5 |
| <b>Performance Properties</b>  |   |                              |   |                             |
| Salt Spray   |   | ASTM B117                    | No blistering at 1000 hours<br>of exposure  |                             |
| Pull-off Adhesion Bond Strength  | psi   | ASTM D4541                   | <b>350-550</b><br>Adhesion bond broke at the<br>paint/substrate interface in<br>all tests |                             |
| Impact resistance  |   | ASTM D2794                   | No crazing, or loss of<br>adhesion at 40 inch pounds                                      |                             |
| Tensile strength at break  | psi (MPa)   | ASTM D638                    | 4200÷7100 (29÷49)   |                             |
| Elongation at break  | %   | ASTM D638                    | 4÷7   |                             |
| Hardness (Shore D)   |   | ASTM D2240                   | ≥75   |                             |
| Bond strength to concrete substrate  |   | ASTM D4541<br>ACI 503.4-2322 | Cohesive failure  |                             |
| Abrasion resistance<br>(TABER, wheel C-17, 1000g), loss of mass                | mg/1000 cycles  | ASTM D4060                   | 30÷40   |                             |
| Coefficient of Friction  |   | ASTM D2047                   | 0.4÷0.5   |                             |

|   |                  |                                  |   |
|---|------------------|----------------------------------|---|
| <i>Thermal Testing</i>  | <i>120 hours</i> | <i>ASTMC884/C884M</i>            | <i>No cracking or delamination of samples</i> |
| <b><i>Chemical and Stain Resistance</i></b>   |                  |                                  |   |
| <i>Water Absorption.<br/>Weight gain at immersion in water<br/>24h at 77°F/25°C</i> | <i>%</i>         | <i>ASTM D570-98<br/>(2010)e1</i> | <i>0.1÷ 0.5</i>                               |
| <i>Water resistance, immersion</i>  |                  | <i>ASTM D870-09</i>              | <i>No change in color or blistering</i>       |
| <i>Hydrochloric acid – 10 % HCl</i>   |                  |                                  | <i>Gloss reduction</i>                        |
| <i>Battery acid</i>   |                  |                                  | <i>Gloss reduction</i>                        |
| <i>Sodium hydroxide – 10 % NaOH</i>   |                  |                                  | <i>No effect</i>                              |
| <i>Sodium sulfate – 10 % Na<sub>2</sub>SO<sub>4</sub></i>                           |                  |                                  | <i>No effect</i>                              |
| <i>Gasoline</i>   |                  |                                  | <i>No effect</i>                              |
| <i>Diesel fuel</i>  |                  |                                  | <i>No effect</i>                              |
| <i>Motor oil</i>  |                  |                                  | <i>No effect</i>                              |
| <i>Skydrol (aviation hydraulic fluid)</i>   |                  |                                  | <i>No effect</i>                              |
| <i>Brake fluid</i>  |                  |                                  | <i>No effect</i>                              |
| <i>Transmission fluid</i>   |                  |                                  | <i>No effect</i>                              |
| <i>Hydraulic fluid</i>  |                  |                                  | <i>No effect</i>                              |
| <i>Vegetable oil</i>  |                  |                                  | <i>No effect</i>                              |
| <i>Alcohol</i>  |                  |                                  | <i>No effect</i>                              |

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