



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

Version 2.3: December 10, 2017

| PROPERTIES | UNIT | STANDARD | VALUE |
|--------------------------------------------------------------------------------|-----------------------------------------------------------------------|------------|-----------------------------------------------------------------------------------------------------------|
| General | | | |
| Type of the product | Two-component hybrid nonisocyanate polyurethane compound | | |
| Use | Compound for indoor abrasive, impact and chemical resistant floorings | | |
| Substrate | Concrete, cement cover | | |
| Primer | Conventional primer might be required for some substrates | | |
| Physical Properties | | | |
| Ratio of components Base "A" : Hardener "B" (Uramine 5851) | | | 100 A : 47 B by weight |
| Viscosity at 77° F (25° C): ❖ Base "A" ❖ Hardener "B" (Uramine 5851) | cP (mPa.s) | ASTM D2196 | < 2500 180-230 |
| Density at 77° F (25° C): ❖ Base "A" ❖ Hardener "B" (Uramine 5851) | lb/gal (g/cm ³) | 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) | | 20÷120 (0.5÷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 |
| Performance Properties | | | |
| Salt Spray | | ASTM B117 | No blistering at 1000hours of exposure |
| Pull-off Adhesion Bond Strength | psi | ASTM D4541 | 350-550 Adhesion bond broke at the paint/substrate interface in all tests |
| Impact resistance | | ASTM D2794 | No crazing, or loss of adhesion at 40 inch pounds |
| Tensile strength at break | psi (MPa) | ASTM D638 | 4200-7100 (29-49) |



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| <i>Tensile Elongation at break</i> | % | <i>ASTM D638</i> | <i>5÷10</i> |
| <i>Hardness (Shore D)</i> | | <i>ASTM D2240</i> | <i>75÷80</i> |
| <i>Bound strength to concrete substrate</i> | | <i>ASTM D4541</i> <i>ACI 503.4-2322</i> | <i>Cohesive failure</i> |
| <i>Abrasion resistance</i> <i>(TABER, wheel CS-17, 1000g), loss of mass,</i> | <i>mg/1000</i> <i>cycles</i> | <i>ASTM D4060</i> | <i>30÷40</i> |
| <i>Coefficient of Friction</i> | | <i>ASTM D2047</i> | <i>0.4÷0.5</i> |
| <i>Thermal Testing</i> | <i>120 hours</i> | <i>ASTM</i> <i>C884/C884M</i> | <i>No cracking or delamination of samples</i> |
| Chemical and Stain Resistance | | | |
| <i>Water Absorption.</i> <i>Weight gain at immersion in water</i> <i>(24h at 77°F/25°C)</i> | % | <i>ASTM D570</i> | <i>0.1÷ 0.5</i> |
| <i>Water resistance, immersion</i> | | <i>ASTM D870</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 % Na₂SO₄</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> |

Disclaimer

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