



## Hybrid Coating Technologies

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# Green Polyurethane™ Indoor Floor Coating FLI4W-FC-Clear-V.2.1

(Version 2.1: Jan 16, 2017)

## Technical Data Sheet

| PROPERTIES  | UNIT  | STANDARD                     | VALUE   |
|---|---|------------------------------|---|
| <b>General</b>  |   |                              |   |
| 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             |                              |   |
| <b>Physical Properties</b>  |   |                              |   |
| Ratio of components (Base "A" : Hardener "B" Uramine FC)  | 100 A : 40 B <i>by weight</i><br>100 A : 48 B <i>by volume</i>        |                              |   |
| Viscosity Part A<br>Viscosity Part B<br>Viscosity after mixing (Brookfield RVDV II, Spindle 29, 100 rpm) at 77°F (25°C) | cP (mPa·s)  | ASTM D2196                   | 2000-2500<br>200-300<br>800-1200                      |
| Density at 77°F (25°C)<br>Part A<br>Part B<br>A+B after mixing  | g/cm <sup>3</sup><br>(lb./gal)  |                              | 1.15 / 9.59<br>0.95 / 7.96<br>1.09 / 9.06             |
| Color   |   |                              | Colorless   |
| Pot life at temperature :   | °F (°C)<br>min  |                              | 50 (10) 70 (18) 77 (25)<br>30 20 10                   |
| Thickness of the coating  | mils (mm)   |                              | 20-120 (0.5-3)  |
| VOC   | %   | ASTM D2369                   | ~ 0   |
| Solids Content  | %   |                              | ~ 100   |
| Application temperature   | °F (°C)   |                              | + 50÷77 (+ 10÷25)                                     |
| Curing time at temperature:<br>• Dry-To-Touch Time<br>• Light Traffic<br>• Full cure                                    | °F (°C)<br>hours<br>hours<br>days                                     | ASTM D1640                   | 50(10) 59 (18) 77 (25)<br>8 4 2<br>24 16 12<br>10 6 3 |
| <b>Performance Properties</b>   |   |                              |   |
| Tensile strength at break   | psi (MPa)   | ASTM D638                    | 5700-7100 (40-50)                                     |
| Elongation at break   | %   | ASTM D638                    | 3 - 7   |
| Hardness (Shore D)  |   | ASTM D2240                   | 75-85   |
| Bound strength to concrete substrate  |   | ASTM D4541<br>ACI 503.4-2322 | Cohesive failure                                      |
| Abrasion resistance (TABER, Wheel CS-17 1000g), loss of mass.   | mg/1000 cycles  | ASTM D4060                   | 25-30   |
| <b>Chemical and Stain Resistance</b>  |   |                              |   |
| Weight gain at immersion in water (24 h @ 77°F / 25°C)  | %   | ASTM D570                    | 0.1- 0.5  |
| Weight gain at immersion in 10% H <sub>2</sub> SO <sub>4</sub> (24 h @ 77°F / 25°C)                                     | %   |                              | 0.5-1   |
| Sodium hydroxide – 10 % NaOH  |   |                              | No effect   |
| Gasoline  |   |                              | No effect   |
| Motor oil   |   |                              | No effect   |
| Brake fluid   |   |                              | No effect   |
| Vegetable oil   |   |                              | No effect   |