



## Hybrid Coating Technologies

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### PI9W-Clear (Varnish) Green Polyurethane™ Indoor Coating

#### Technical Data Sheet

Revision 4.2.16

| PROPERTIES   | UNIT  | STANDARD          | VALUE                                     |
|--|---|-------------------|---|
| <b>General</b>   |   |                   |   |
| Type of the product  | Two-component hybrid nonisocyanate polyurethane coating (Varnish) |                   |   |
| Use  | Coating for indoor light stable applications.                     |                   |   |
| Substrate  | Concrete, cement cover, gypsum, wood, metal.                      |                   |   |
| <b>Physical Properties</b>   |   |                   |   |
| Ratio of components<br>(Base "A" : Hardener "B" Uramine 4761)  | <b>100A : 25B</b> by weight & <b>100A : 30B</b> by volume         |                   |   |
| Viscosity Part A<br>Viscosity Part B<br>Viscosity Parts A & B at 77°F (25°C):<br>(Brookfield RVDV II, Spindle 29, 20 rpm) at 77°F (25°C) | cPs   | <b>ASTM D2393</b> | 1000-1500<br>500-800<br>≤1000             |
| Density at 77°F (25°C):<br>Base "A"<br>Hardener "B" (Uramine 4761)<br>Mixture "A" + "B"  | lb/gal (kg/l)   |                   | 9.51 (1.14)<br>8.38 (1.00)<br>9.14 (1.10) |
| Thickness of the layer of coating recommended.   | Mils (ft <sup>3</sup> /gal)<br>μm(m <sup>2</sup> /L)              |                   | Up to 4 (400min.)<br>Up to 100 (10min)    |
| VOC  |   | <b>ASTM D2369</b> | Compliant                                 |
| Application temperature  | F° (°C)   |                   | 59-77F° (15-25°C):                        |
| Curing time at 59-77F° (15-25°C):<br>• Pot Life<br>• Dry to Touch<br>• Full cure   | min<br>hours<br>days  |                   | 60-30<br>12 - 6<br>10-7                   |
| Appearance   |   |                   | Colorless, gloss                          |
| Specular gloss, initial, 60°   |   | <b>ASTM D523</b>  | 80- 90                                    |
| Pencil Hardness, 48 hours<br>7 days  |   | <b>ASTM D3363</b> | F<br>2H                                   |
| Impact resistance, punch 0.625 in,<br>weight 4 lbs, CS δ = 1 mm  | lb. in  | <b>ASTM D2794</b> | ≥ 60                                      |
| <b>Chemical and Stain Resistance</b>   |   |                   |   |
| Weight gain (24 h @ 25°C) at immersion:<br>- in water<br>- in 10% H <sub>2</sub> SO <sub>4</sub><br>- in 10 % NaOH                       | %   | <b>ASTM D570</b>  | 0.1-0.5<br>0.5-1<br>0.1-0.5               |
| Gasoline   |   |                   | No effect                                 |
| Diesel fuel  |   |                   | No effect                                 |
| Motor oil  |   |                   | No effect                                 |
| Vegetable oil  |   |                   | No effect                                 |
| Brake fluid  |   |                   | No effect                                 |
| Skydrol (aviation hydraulic fluid)   |   |                   | No effect                                 |