



## Technical Data

### PRODUCT DESCRIPTION

A two-component, aliphatic/acrylic polyurethane coating that has superior performance in a heavy-duty industrial environment. This polyurethane gives you a "wet look" high gloss finish with superior color and gloss retention, good flexibility and good abrasion and chip resistance. Is resistant to a wide range of solvents and chemicals under splash and spill conditions. V.O.C. compliant.

### INTENDED USES

Formulated with high performance durability as a high gloss finish coat on properly primed steel, galvanized steel and aluminum. Intended uses include transport trailers, tanker trucks and all over-the-road equipment NOT INTENDED FOR IMMERSION SERVICE.

### PHYSICAL PROPERTIES

|   |   |
|---|---|
| <b>Color (Part A)</b>                     | Pure White IG-1230, White Base-IG-1231, Deep Base-IG- 1232, Clear Base-IG-0230, Metallic Base- IG-2233, Yellow Base-IG-3253, Red Base-IG-5259   |
| <b>Cure (Part B)</b>                      | IG- 0260  |
| <b>Resin Type</b>                         | Acrylic Polyurethane  |
| <b>Finish</b>                             | 90 + @ 60° / 80 + @ 20°   |
| <b>Reduction Solvents</b>                 | Butyl Acetate or Toluol   |
| <b>Clean-up Solvents</b>                  | Butyl Acetate or Ketones  |
| <b>Solids by Weight</b>                   | 62%   |
| <b>Solids by Volume</b>                   | 53%   |
| <b>Theoretical Coverage**</b>             | 850 ft <sup>2</sup> /gal @ 1 mil  |
| <b>Dry Film Thickness/ Coat</b>           | 1.5 - 2 mils (37.5 - 50 microns)  |
| <b>Wet Film to Achieve DFT</b>            | 2.5 - 3.5 mils (62.5 - 87.5 microns)  |
| <b>Coverage at DFT**</b>                  | 425 - 566 ft <sup>2</sup> /gal @ 1.5 - 2 mils DFT   |
| <b>VOC's</b>                              | 2.99 lbs./gal. (358.3 grams/liter)  |
| <b>Induction time</b>                     | None required   |
| <b>Mixing ratio (by volume)</b>           | 3 parts resin to 1 part cure. Product packaged in pre-measured kits.  |
| <b>Thinning</b>                           | Not recommended. If needed, thin up to 10% by volume with Butyl Acetate or Toluol.  |
| <b>Pot life</b>                           | At 77°F (25°C) - 2 hours<br>At 90°F (32°C) - 1-1.5 hours  |
| <b>Drying Time* (hours) [ASTM D 1640]</b> | <u>At 77°F (25°C)</u><br>Dry Hard - 24 hours<br>Recoat Time - Min. 2 hours<br>Recoat Time - Max. 48 hours (After 48 hours, finish will need to be scuff sanded to insure intercoat adhesion.) |

\* Dry times vary with surface temperature, air movement, humidity and film thickness.

\*\* Coverage rates are estimates based on the product volume solids and make no allowance for material loss during application. Actual spread rates may vary dependent on applicator experience, surface porosity and texture.

### RECOMMENDED SYSTEMS

V-Tech 500 Hi-Build Epoxy Primer/V-Tech 500 Hi-Build Epoxy Primer/Pinnacle 460  
V-Tech 600 Universal Primer/V-Tech 600 Universal Primer/Pinnacle 460  
Stratum Urethane Primer/Stratum Urethane Primer/Pinnacle 460

## *SURFACE PREPARATION*

All surfaces must be cured, clean, sound, dry and free of all dirt, dust, efflorescence, wax, oil, grease, chalk and any other contamination that would interfere with new coating adhesion. Bare surfaces must be properly prepared and primed prior to application of this product.

### **New Ferrous Metal & Previously Painted Metal:**

Power or hand washing is recommended to remove contamination. If oil or grease is present, use of a cleaner/degreaser is required. All cleaning residue must be completely rinsed from the surface. Allow to dry. Remove all loose coatings, rust and corrosion by scraping, sanding or other abrading method as per SSPC-SP-2 and SSPC-SP-3. Prime with Mult-E-Poxy 180. For new steel and complete removal of the old coating, abrasive blast according to SSPC-SP-6 Commercial Blast. Prime with PG-Series Stratum, PF-Series Hi-Build Epoxy Primer or PN-Series Fast Dry Alkyd Primer. Use proper abrasive to achieve a 1.5 to 2 mil profile as per SSPC-SP-6. Blasted surfaces must be primed with appropriate primer before flash rusting occurs.

### **New Galvanized & Aluminum Surfaces**

Solvent wipe to remove surface contamination, then use a cleaning etching solution or blast per SSPC-SP-7 Brush-off Blast. Prime the surface with Mult-E-Poxy 180 or the PF Series Hi-Build Epoxy Primer.

### **Weathered Galvanized & Aluminum Surfaces:**

Power or hand wash with detergent and rinse thoroughly. The surface must be dull and have a profile, use a cleaning & etching solution if needed. Prime the surface with Mult-E-Poxy 180 or the PF Series Hi-Build Epoxy Primer.

### **Mildew:**

Remove by using a solution of one part household bleach and three parts water. Apply to mildewed area and scrub. Allow solution to remain on the surface for 3 to 5 minutes and then rinse completely and allow to dry before coating application.

## *APPLICATION*

Part A (resin) and part B (cure) are packaged in pre-measured kits. The mixing ratio is 3 parts A to 1 part B. Thoroughly mix Part B into Part A using an explosion-proof power drill and Jiffy Mixer to disperse pigments. The material must be applied within the estimated pot life. For optimum application, air and surface temperatures should be from 50° to 90°F (10° to 32°C) and at least 5° F (3° C) above the dew point. Above 122°F (50°C), sagging may occur.

### **Conventional Spray**

Thinning should not be necessary. If needed, thin up to 10% by volume with Butyl Acetate or Toluol.

### **Airless Spray**

Flush airless lines with Butyl Acetate or Ketones. Equipment must be clean prior to start. Apply a wet coat in even, parallel passes with 50 % overlap to avoid bare areas and pinholes. If required, cross spray at right angles.

| <i>Tip Orifice</i> | <i>Atomizing Pressure</i> | <i>Mat'l Hose ID</i> | <i>Manifold Filter</i> |
|--------------------|---------------------------|----------------------|------------------------|
| 0.013" to 0.015"   | 2500-3000 psi             | 1/4"                 | 60 mesh                |

## *PACKAGING*

|              | <i>1 gallon kit</i>     | <i>5 gallon kit</i>        |
|--------------|-------------------------|----------------------------|
| Part A Resin | 1 Gallon (short filled) | 5-gallon can (full filled) |
| Part B Cure  | 1 Quart (full filled)   | 1 gallon can (full filled) |

## *SAFETY PRECAUTIONS*

Paint Products contain chemical ingredients, which are considered hazardous. Prior to use read container label warnings and the current Material Safety Data Sheet for important health and safety information. Insure these instructions are practiced during product application and cure. **Keep out of the reach of children.**

## *LIMITED WARRANTY*

The technical data and suggestions for use contained in this document are true and correct to the best of our knowledge at the date of issuance. The statements of this document do not constitute a warranty, expressed or implied, as to the performance of these products. Since Diamond Vogel Paints does not control the application of its products, or the condition of, the surfaces to which they are applied, Diamond Vogel Paint's liability will under no circumstances exceed replacement of the product. **All technical information is subject to change without notice.**

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