



*"Innovative Coatings for Your Environment"®*

## PRODUCT DATA

### 24-B601 WB GRAPHITE BLACK ZERO VOC DTM

<b>Description:</b>	An inhibitive acrylic water based lead and chrome free metal primer. This product is specifically designed for protection of ferrous, aluminum and galvanized metal surfaces.
<b>Uses:</b>	Use as a DTM for corrosion protection of various substrates, such as railcars, tanks and jackets.
<b>Vehicle Type:</b>	Waterborne
<b>Color:</b>	Black
<b>Gloss:</b>	Low
<b>Viscosity:</b>	65 – 75 KU
<b>% Solids by Weight:</b>	50.0 ± 2%
<b>% Solids by Volume:</b>	40 ± 2%
<b>V.O.C.:</b>	0.0 Lbs/Gal
<b>Weight per Gallon:</b>	10.05 ± 0.30 lbs./gal.
<b>Recommended Film Thickness:</b>	1 - 3 mil D.F.T., 4 – 7 mils wet
<b>Theoretical Coverage:</b>	Per Gallon @ 1 mil D.F.T. - 641 ft. <sup>2</sup>
<b>Drying Times @70°F/21°C:</b>	To touch: 30 minutes To recoat: 60 minutes
<b>Solvent:</b>	Do not thin. If necessary, use fresh water.
<b>Flash Point:</b>	>200°F (Setaflash-closed cup)
<b>Application:</b>	Airless Spray, tip size 0.17-.0.21, pump pressure 2000-3000psi 16 mils wet film build
<b>Maximum Operating Temperature:</b>	continuous 300°F                      intermittent 500°F

Continues on back....

## Physical Performance Data:

<b>Test</b>	<b>Exposed</b>	<b>Unexposed (control)</b>
Water Immersion ASTM D870 1000 hours No loss of adhesion or blistering	Pass	Pass
Humidity ASTM D4585 :3000 hours No loss of adhesion or blistering	Pass	Pass
Impact Resistance ASTM D2794 Direct Reverse	120 in/lb 60 in/lb	120 in/lb 50 in/lb
Conical Mandrel ASTM D522 1/8-inch bend.	Pass	Pass
Adhesion ASTM D3359 Crosshatch and X-cut	Pass	Pass
Pencil Hardness ASTM D3363	3B	3B
Chemical Resistance 24 hour immersion in 2% HCL solution No softening, blistering, or loss of adhesion	Pass	Pass

### Limitations:

Apply only in good weather. Do not apply unless air, surface, and material temperature is at least 50°F (10°C). Do not apply unless surface temperature is at least 5°F (3°C) above the Dew Point or when it is likely that moisture will contact surface of wet film. Do not use in immersion or high temperature service. DO NOT ALLOW TO FREEZE.

### Surface Preparation:

Surface should be clean and dry. Remove as much mill scale, rust and surface contamination as possible for direct-to-metal application.

### Mixing:

Stir thoroughly prior to use.

### Thinning:

Not required

### Welding:

When welding or flame cutting through this material, do so in accordance with American National Standards Institute (ANSI) instructions in specification Z49.1 SAFETY IN WELDING AND CUTTING. All damaged areas should be reprepared and coated as specified.

### Shelf Life:

Six months from the date of manufacture.

Continues on back....

**Safety:**

This product and recommended thinners contain solvents and/or chemical ingredients. Please observe proper health and safety procedures during handling, storage, application and drying times. For optimum safety, user is directed to consult the current Material Safety Data Sheet for this product and other products being used coincidentally. When using in a confined area, consult the current OSHA or ANSI bulletins on safety requirements.

**Notes:**

Some discoloration or flash rusting is possible under highly humid conditions. However, a two coat system at 4 - 5 mils (102 -127 microns) will eliminate this. Use of forced drying at 120°F (49°C) is especially recommended when relative humidity is above 70% and when temperature is below 60°F (16°C).

24-B601 120419 CCH  
H/USERS/WP51/PDS24

---

The technical data furnished herein is accurate to the best of our knowledge and we guarantee our products to conform to Davis-Frost quality control. However, we can assume no liability for our products' coverage, performance or suitability for end use, since these factors are beyond our control. Neither can we assume liability for damages, injury or delays resulting from use of Davis-Frost materials. Liability, if any, is limited to replacement of defective materials or to a monetary value not to exceed the purchase price of materials. Technical data is subject to change