Acrylic Waterborne DTM

Z6600 Series – Satin
Z6700 Series – Semi-Gloss
Z6800 Series – Gloss

Acrylic Waterborne DTM is an interior/exterior, single component, corrosion-resistant waterborne enamel designed for light to moderate duty industrial and commercial applications. Use for new construction or maintenance work.

- Early rust and moisture resistance
- Flash rust resistant
- Corrosion and chemical resistant
- Fast dry
- Single component
- Interior/exterior use

Recommended Uses

Use this product on properly prepared surfaces of steel, iron, aluminum, galvanized metal, concrete block, masonry, wood, drywall, pre-finished siding and previously painted surfaces.

Recommended Systems

**Steel – with primer**
1 coat Pratt & Lambert® Universal HP Acrylic Primer
2 coats Pratt & Lambert® Acrylic Waterborne DTM

**Steel - unprimed**
2 coats Pratt & Lambert® Acrylic Waterborne DTM – White/Base 1 or custom tints from White/Base 1 only. Deeper colors require a primer. (Note that application over unprimed bare steel may cause pinpoint rusting)

**Aluminum, Galvanized Steel**
1 coat Pratt & Lambert® Universal HP Acrylic Primer
2 coats Pratt & Lambert® Acrylic Waterborne DTM

**Pre-Finished Siding (Baked-on Finishes):**
1 coat Pratt & Lambert® Acrylic Waterborne Bonding Primer
2 coats Pratt & Lambert® Acrylic Waterborne DTM

**Concrete, Masonry**
1 coat Pratt & Lambert® Multi-Purpose Waterborne Primer
2 coats Pratt & Lambert® Acrylic Waterborne DTM

**Concrete Block**
1 coat Pratt & Lambert® Acrylic Block Filler
2 coats Pratt & Lambert® Acrylic Waterborne DTM

**Wood**
1 coat Pratt & Lambert® Multi-Purpose Waterborne Primer
2 coats Pratt & Lambert® Acrylic Waterborne DTM

**Drywall, Wallboard**
1 coat Pratt & Lambert® Drywall Primer
2 coats Pratt & Lambert® Acrylic Waterborne DTM

**Previously Painted Surfaces**
2 coats Pratt & Lambert® Acrylic Waterborne DTM

Technical Data

**Vehicle:** Acrylic

**Finish:** Satin (10-20 units @ 85˚)
Semi-Gloss (35-50 units @ 60˚)
Gloss (70+ units @ 60˚)

**Flash Point:** N/A

**Volume Solids:** Satin: 37 ± 2%
Semi-Gloss: 36 ± 2%
Gloss: 36 ± 2%

**Weight Solids:** Satin: 45 ± 2%
Semi-Gloss: 50 ± 2%
Gloss: 44 ± 2%

**Weight/Gallon:** Satin: 9.6 lb/gal
Semi-Gloss: 9.5 lb/gal
Gloss: 9.5 lb/gal

**VOC (less exempt solvents):** VOC < 50 g/L – 0.42 lb/gal as per 40 CFR 59.406

**Recommended Film Thickness:**
6.0 - 12.0 mils wet
2.5 - 4.0 mils dry

**Spread Rate:** 140-225 sq. ft. per gallon

**Shelf Life:** 36 months

**Application:** Apply by airless or conventional spray, brush or roller

**Drying Time (@ 7 mils wet, 50% R.H.):**


<table>
<thead>
<tr>
<th>Temperature</th>
<th>To Touch</th>
<th>Tack Free</th>
<th>To Recoat</th>
<th>To Cure</th>
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<tbody>
<tr>
<td>50°F</td>
<td>1 hr</td>
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<tr>
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<td>5 min</td>
<td>15 min</td>
<td>15 min</td>
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**Reduction:** Water

**Clean-up:** Soap and Water

**Tinting:** Universal Colorants

**Sizes:** 1 gallon, 5 gallons

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FOR INDUSTRIAL USE ONLY

**As of 10/22/13, complies with:**

- OTC
- EC
- SCAQMD
- CARB
- LADCO

**MPI:** Z6700 Series—141, 147, 153
Z6800 Series—114, 148, 154

**Please refer to the MPI Approved Products website for the most current list of approved Pratt & Lambert products.**

Surface Preparation

**WARNING!** Removal of old paint by sanding, scraping or other means may generate dust or fumes that contain lead. Exposure to lead dust or fumes may cause brain damage or other adverse health effects, especially in children or pregnant women. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted respirator (NIOSH approved) and proper containment and cleanup. For more information, call the National Lead Information Center at 1-800-424-LEAD (in US) or contact your local health authority.

Surface must be clean, dry & in sound condition. Remove all oil, dust, grease, dirt, loose rust and other foreign materials to ensure adequate adhesion. **Do not use hydrocarbon solvents for cleaning.** Safety colors and colors tinted from Base 2/Deep and Base 3/Neutral require a prime coat for maximum durability, adhesion and corrosion protection.

**Iron & Steel:** Minimum surface preparation is Hand Tool Clean SSPC-SP2. Remove all oil and grease from surface per SSPC-SP1. For better performance, use Commercial Blast Cleaning per SSPC-SP6. Primer recommended for best performance.

**Aluminum:** Remove all oil, grease, dirt, oxide and other foreign material per SSPC-SP1.

**Galvanizing:** Surface should be exterior weathered for 6 months prior to painting. Remove all oil and grease per SSPC-SP1. Rusty galvanizing requires a minimum of Hand Tool Cleaning per SSPC-SP2. Prime cleaned area the same day with Pratt & Lambert® Universal HP Acrylic Primer.

**Concrete and Masonry:** For surface preparation, refer to NACE 6/SSPC-SP13 or ICRI 03732, CSP 1-3. Surface should be thoroughly clean & dry. Surface temperatures must be at least 55°F before filling. If required for a smoother finish, use Pratt & Lambert® Acrylic Block Filler. Primer must be thoroughly dry before topcoating per label instructions. Weathered masonry & soft or porous cement board must be brush blasted or power tool cleaned to remove loosely adhering contamination & to get a hard, firm surface. Apply one coat Pratt & Lambert® Masonry Surface Conditioner, per label instructions.

**Wood:** Surface must be clean, dry & sound. Prime with recommended primer. No painting should be done immediately after a rain or during foggy weather. Knots & pitch streaks must be scraped, sanded & spot primed before a full coat of primer is applied. All nail holes or small openings must be properly caulked.

**Pre-Finished Siding:** Clean per SSPC-SP1 or water blasting per NACE Standard RP-01-72. Always check for compatibility of the previously painted surface with the new coating by applying a test patch of 2-3 square feet. Allow to dry thoroughly for 1 week before checking adhesion. Prime with Pratt & Lambert® Acrylic Waterborne Bonding Primer.

**Previously Painted Surfaces:** If in sound condition, clean surface of all foreign material. Smooth, hard or glossy coatings and surfaces should be dulled by abrading the surface. Apply a test area, allowing paint to dry one week before testing adhesion. If adhesion is poor, additional abrasion of the surface and/or removal of the previous coating may be necessary. Retest surface for adhesion. If paint is peeling or badly weathered, clean surface to sound substrate and treat as a new surface as above.

**Clean Up**

Clean spills and spatters immediately with soap and warm water. Clean hands and tools immediately after use with soap and warm water. After cleaning, flush spray equipment with mineral spirits to prevent rusting of the equipment. Follow manufacturer’s safety recommendations when using mineral spirits.

The information and recommendations set forth in this Product Data Sheet are based upon tests conducted by or on behalf of Pratt & Lambert Paints. Such information and recommendations set forth herein are subject to change and pertain to the product offered at the time of publication. Consult your Pratt & Lambert dealer or representative to obtain the most recent Product Data Sheet.

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**Physical Test Data**

**Application**

| Temperature (air, surface and material): | 50°F minimum, 120°F maximum. At least 5°F above dew point |
| Relative humidity: | 85% maximum |
| Reduction not recommended for airless spray, brushing, or rolling. |

**Airless Spray:**

- **Pressure:** 1500 psi
- **Hose:** 1/4” ID
- **Tip:** .017” - .021”
- **Filter:** 60 mesh

**Conventional Spray:**

- **Gun:** Binks 95 (or equivalent)
- **Fluid Nozzle:** 66
- **Air Nozzle:** 63PBB
- **Atomization Pressure:** 50 psi
- **Fluid Pressure:** 15-20 psi
- **Reduction:** As needed up to 12.5% by volume

**Brush:**

- **Brush:** Nylon/polyester

**Roller:**

- **Cover:** 3/8” Woven

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**Substrate:** Steel  
**Surface Preparation:** SSPC-SP10  
**Finish:** 2 coats Acrylic WB DTM  
**Adhesion:** Method: ASTM D4541, Result: 1386 psi  
**Corrosion Weathering (over HP Acrylic WB Primer):** Method: ASTM D5894, 1500 hrs, Result: Rating 10 per 5 cycles ASTM D714 for blistering; Rating 9 per ASTM D1654 for corrosion  
**Direct Impact Resistance:** Method: ASTM D2794, Result: >160 in. lb.  
**Dry Heat Resistance:** Method: ASTM D2485, Result: 250°F  
**Flexibility:** Method: ASTM D522, 180° bend, 1/8” mandrel, Result: Passes  
**Humidity Resistance (over HP Acrylic WB Primer):** Method: ASTM D4585, 1500 hours, Result: Rating 10 per ASTM D714 for blistering; Rating 10 per ASTM D1654 for corrosion  
**Pencil Hardness:** Method: ASTM D3363, Result: 2B  
**Salt Fog Resistance (over HP Acrylic WB Primer):** Method: ASTM B117, 1500 hours, Result: Rating 10 per ASTM D714 for blistering; Rating 9 per ASTM D1654 for corrosion  
**Thermal Cycling:** Method: ASTM D2246, 5 cycles, Result: Passes

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www.prattandlambert.com