Protective & Marine Coatings

# DTM WASH PRIMER

**B71Y1**

Revised: February 3, 2014

## PRODUCT INFORMATION

1.20

### PRODUCT DESCRIPTION

**DTM WASH PRIMER** is a low VOC, water based wash primer free of heavy metals and mineral acids. Designed to be applied over aluminum and galvanizing, or used as a tie-coat over zinc rich primers. Accepts high performance "hot" solvent topcoats directly, such as epoxies and urethanes.

- Fast dry
- Flash rust/early rust resistant
- No "critical" film thickness
- Low odor
- Extended recoat time

### PRODUCT CHARACTERISTICS

**Finish:** Flat

**Color:** Yellow-Green

**Volume Solids:** 21% ± 2%

**Weight Solids:** 29% ± 2%

**VOC (EPA Method 24):** <100 g/L; .83 lb/gal

**Recommended Spreading Rate per coat:**

| | Minimum | Maximum |
|---|---|---|
| **Wet mils** (microns) | **3.4** (85) | **6.4** (160) |
| **Dry mils** (microns) | **0.7** (18) | **1.3** (32) |
| **~Coverage sq ft/gal** ($m^2$/L) | **250** (6.1) | **470** (11.5) |
| **Theoretical coverage sq ft/gal** ($m^2$/L) @ 1 mil / 25 microns dft | **336** (8.2) | |

*NOTE: Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance.*

**Drying Schedule @ 6.0 mils wet (150 microns):**

| | @ 50°F/10°C | @ 77°F/25°C *50% RH* | @ 110°F/43°C |
|---|---|---|---|
| **To touch:** | 3 hours | 2 hours | 1 hour |
| **To handle:** | 3 hours | 2 hours | 1 hour |
| **To recoat:** | 8 hours | 2 hours | 1 hour |
| **To cure:** | 7 days | 5 days | 3 days |

*Drying time is temperature, humidity, and film thickness dependent.*

| | |
|---|---|
| **Shelf Life:** | 36 months, unopened<br>Store indoors at 40°F (4.5°C) to 100°F (38°C) |
| **Flash Point:** | >200°F (93°C), PMCC, mixed |
| **Reducer:** | Not Recommended |
| **Clean Up:** | Water |

### RECOMMENDED USES

For use over prepared:

- Aluminum
- Galvanizing
- Stainless steel
- Zinc rich primers
- Must be topcoated
- Suitable for use in USDA inspected facilities

### PERFORMANCE CHARACTERISTICS

**Substrate***: Aluminum

**Surface Preparation*:** SSPC-SP1

**System Tested*:**

1 ct. DTM Wash Primer @ 1.0 mils (25 microns) dft

*unless otherwise noted below

| Test Name | Test Method | Results |
|---|---|---|
| **Adhesion** | ASTM D3359 | 5B |
| **Direct Impact** | ASTM D2794 | 160 in. lbs. |
| **Flexibility** | ASTM D522, 180° bend, 1/8" mandrel | Passes |
| **Pencil Hardness** | ASTM D3363 | F |



continued on back

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### RECOMMENDED SYSTEMS

| | | Dry Film Thickness / ct. Mils | (Microns) |
|---|---|---|---|
| **Aluminum:** | | | |
| 1 ct. | DTM Wash Primer | 0.7-1.3 | (18-32) |
| 2 cts. | DTM Acrylic Coating | 2.5-4.0 | (63-100) |
| **Galvanizing:** | | | |
| 1 ct. | DTM Wash Primer | 0.7-1.3 | (18-32) |
| 2 cts. | DTM Acrylic Coating | 2.5-4.0 | (63-100) |
| **Steel:** | | | |
| 1 ct. | Zinc Clad Primer | 3.0-5.0 | (75-125) |
| 1 ct. | DTM Wash Primer | 0.7-1.3 | (18-32) |
| 2 cts. | DTM Acrylic Coating | 2.5-4.0 | (63-100) |
| **Stainless Steel:** | | | |
| 1 ct. | DTM Wash Primer | 0.7-1.3 | (18-32) |
| 2 cts. | DTM Acrylic Coating | 2.5-4.0 | (63-100) |

**Other Acceptable Topcoats:**

Acrolon 218 HS Polyurethane
Fast Clad DTM Urethane
Hi-Solids Polyurethane
Hydrogloss
Industrial Enamel HS
Macropoxy HS Epoxy
Metalatex Semi-Gloss Enamel
Pro Industrial Acrylic
Sher-Cryl HPA
Sherthane 2K Urethane
Tile-Clad HS Epoxy
Waterbased Tile Clad Epoxy
Waterbased Industrial Enamel

The systems listed above are representative of the product's use, other systems may be appropriate.

### DISCLAIMER

The information and recommendations set forth in this Product Data Sheet are based upon tests conducted by or on behalf of The Sherwin-Williams Company. Such information and recommendations set forth herein are subject to change and pertain to the product offered at the time of publication. Consult your Sherwin-Williams representative to obtain the most recent Product Data Information and Application Bulletin.

### SURFACE PREPARATION

Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, loose rust, and other foreign material to ensure adequate adhesion.
**Do not use hydrocarbon solvents for cleaning.**

Refer to product Application Bulletin for detailed surface preparation information.

Minimum recommended surface preparation:

| | |
|---|---|
| Aluminum: | SSPC-SP1 |
| Galvanizing: | SSPC-SP1 |
| Zinc Rich Coatings: | SSPC-SP1 |
| Stainless Steel | SSPC-SP1 |

**Surface Preparation Standards**

| | Condition of Surface | ISO 8501-1 BS7079:A1 | Swedish Std. SIS055900 | SSPC | NACE |
|---|---|---|---|---|---|
| White Metal | | Sa 3 | Sa 3 | SP 5 | 1 |
| Near White Metal | | Sa 2.5 | Sa 2.5 | SP 10 | 2 |
| Commercial Blast | | Sa 2 | Sa 2 | SP 6 | 3 |
| Brush-Off Blast | | Sa 1 | Sa 1 | SP 7 | 4 |
| Hand Tool Cleaning | Rusted | C St 2 | C St 2 | SP 2 | - |
| | Pitted & Rusted | D St 2 | D St 2 | SP 2 | - |
| Power Tool Cleaning | Rusted | C St 3 | C St 3 | SP 3 | - |
| | Pitted & Rusted | D St 3 | D St 3 | SP 3 | - |

### TINTING

Do not tint.

### APPLICATION CONDITIONS

| | |
|---|---|
| Temperature: | 50°F (10°C) minimum, 110°F (43°C) maximum<br>(air, surface, and material)<br>At least 5°F (2.8°C) above dew point |
| Relative humidity: | 85% maximum |

Refer to product Application Bulletin for detailed application information.

### ORDERING INFORMATION

| | |
|---|---|
| Packaging: | 1 (3.78L) and 5 (18.9L ) gallon containers |
| Weight per gallon: | 9.23 ± 0.2 lb 1.1Kg/L |

### SAFETY PRECAUTIONS

Refer to the MSDS sheet before use.

Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams representative for additional technical data and instructions.

### WARRANTY

The Sherwin-Williams Company warrants our products to be free of manufacturing defects in accord with applicable Sherwin-Williams quality control procedures. Liability for products proven defective, if any, is limited to replacement of the defective product or the refund of the purchase price paid for the defective product as determined by Sherwin-Williams. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY SHERWIN-WILLIAMS, EXPRESSED OR IMPLIED, STATUTORY, BY OPERATION OF LAW OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

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## APPLICATION BULLETIN

1.20

### SURFACE PREPARATIONS

Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, loose rust, and other foreign material to ensure adequate adhesion.

**Do not use hydrocarbon solvents for cleaning.**

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

**Galvanized Steel**
Allow to weather a minimum of six months prior to coating. Solvent Clean per SSPC-SP1. When weathering is not possible, or the surface has been treated with chromates or silicates, first Solvent Clean per SSPC-SP1 and apply a test patch. Allow paint to dry at least one week before testing adhesion. If adhesion is poor, brush blasting per SSPC-SP7 is necessary to remove these treatments. Rusty galvanizing requires a minimum of Hand Tool Cleaning per SSPC-SP2, prime the area the same day as cleaned with Procryl Primer.

**Zinc Rich Coatings**
Remove all oil, dust, grease, dirt, loose rust, and other foreign material by cleaning per SSPC-SP1 or water blast per NACE Standard RP-01-72. For weathered zinc coatings, remove zinc salts by either high pressure water washing and scrubbing with a stiff bristle brush or sweep blast followed by a water flush. Allow to dry thoroughly before coating.

**Stainless Steel**
Remove all oil, grease, dirt, oxide and other foreign material by Solvent Cleaning per SSPC-SP1.

**Surface Preparation Standards**

| | Condition of Surface | ISO 8501-1 BS7079:A1 | Swedish Std. SIS055900 | SSPC | NACE |
|---|---|---|---|---|---|
| White Metal | | Sa 3 | Sa 3 | SP 5 | 1 |
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| | Pitted & Rusted | D St 2 | D St 2 | SP 2 | - |
| Power Tool Cleaning | Rusted | C St 3 | C St 3 | SP 3 | - |
| | Pitted & Rusted | D St 3 | D St 3 | SP 3 | - |

### APPLICATION CONDITIONS

| | |
|---|---|
| Temperature: | 50°F (10°C) minimum, 110°F (43°C) maximum<br>(air, surface, and material)<br>At least 5°F (2.8°C) above dew point |
| Relative humidity: | 85% maximum |

### APPLICATION EQUIPMENT

The following is a guide. Changes in pressures and tip sizes may be needed for proper spray characteristics. Always purge spray equipment before use with listed reducer. Any reduction must be compliant with existing VOC regulations and compatible with the existing environmental and application conditions.

**Reducer** .....Not recommended

**Clean Up** .....Water

**Airless Spray**
Pressure.....1500 psi
Hose.....1/4" ID
Tip .....015" - .017"
Filter .....80 mesh

**Conventional Spray**
Gun .....Binks 95
Fluid Nozzle .....66
Air Nozzle.....63PB
Atomization Pressure.....50 psi
Fluid Pressure.....15-20 psi

**Brush**
Not recommended except for touch-up work.

**Roller**
Not recommended except for touch-up work.

If specific application equipment is not listed above, equivalent equipment may be substituted.



continued on back

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## APPLICATION BULLETIN

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### APPLICATION PROCEDURES

Surface preparation must be completed as indicated.

**Mixing Instructions:** Mix paint thoroughly by boxing and stirring before use. Avoid unnecessary entrapment of air. Mix with a power mixer at low speed.

Apply paint at the recommended film thickness and spreading rate as indicated below:

**Recommended Spreading Rate per coat:**

| | Minimum | Maximum |
|---|---|---|
| **Wet mils** (microns) | **3.4** (85) | **6.4** (160) |
| **Dry mils** (microns) | **0.7** (18) | **1.3** (32) |
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*NOTE: Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance.*

**Drying Schedule @ 6.0 mils wet (150 microns):**

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| **To recoat:** | 8 hours | 2 hours | 1 hour |
| **To cure:** | 7 days | 5 days | 3 days |

*Drying time is temperature, humidity, and film thickness dependent.*

Application of coating above maximum or below minimum recommended spreading rate may adversely affect coating performance.

### CLEAN UP INSTRUCTIONS

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.

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### PERFORMANCE TIPS

When using spray application, use a 50% overlap with each pass of the gun to avoid holidays, bare areas, and pinholes. If necessary, cross spray at a right angle.

Spreading rates are calculated on volume solids and do not include an application loss factor due to surface profile, roughness or porosity of the surface, skill and technique of the applicator, method of application, various surface irregularities, material lost during mixing, spillage, overthinning, climatic conditions, and excessive film build.

Flush equipment thoroughly with water before using.

Do not apply to rusty galvanizing.

Do not reduce.

Must be topcoated.

**Do not use hydrocarbon solvents for cleaning.**

Refer to Product Information sheet for additional performance characteristics and properties.

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