PROTECTIVE & MARINE COATINGS

DTM ACRYLIC COATING

B66-100 SERIES                  GLOSS
B66-200 SERIES    SEMI-GLOSS

PRODUCT INFORMATION

PRODUCT DESCRIPTION

DTM ACRYLIC COATING is a 100% acrylic, water reducible, corrosion resistant coating for light to moderate industrial use. Designed for new construction or maintenance use and can be used directly over prepared substrates.

- Chemical resistant
- Corrosion resistant
- Fast dry
- Low odor, Low VOC
- Flash rust/early rust resistant
- Interior/exterior use
- Single component
- Outstanding application characteristics

PRODUCT CHARACTERISTICS

Finish: Gloss or Semi-Gloss
Color: Wide range of colors including safety colors
Volume Solids: 38% ± 2%, may vary by color
Weight Solids: 48% ± 2%, may vary by color
VOC (EPA Method 24): <250 g/L; 2.08 lb/gal

Recommended Spreading Rate per coat:

<table>
<thead>
<tr>
<th>Wet mils (microns)</th>
<th>Minimum</th>
<th>Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.5 (165)</td>
<td>10.0 (250)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Dry mils (microns)</th>
<th>Minimum</th>
<th>Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.5 (63)</td>
<td>4.0 (100)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Coverage sq ft/gal (m²/L) @ 1 mil /25 microns dft</th>
<th>Minimum</th>
<th>Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>~155 (3.8)</td>
<td>250 (6.1)</td>
<td></td>
</tr>
</tbody>
</table>

Theoretical coverage sq ft/gal (m²/L) 608 (14.9)

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

Drying Schedule @ 8.0 mils wet (200 microns):

<table>
<thead>
<tr>
<th>@ 50°F/10°C</th>
<th>@ 77°F/25°C</th>
<th>@ 110°F/43°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>50% RH</td>
<td>50% RH</td>
<td>50% RH</td>
</tr>
</tbody>
</table>

To touch: 1.5 hours 1 hour 30 minutes
Tack free: 6 hours 4 hours 2 hours
To recoat: 6 hours 4 hours 2 hours
To cure: 30 days 30 days 30 days

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

Shelf Life: 36 months, unopened Store indoors at 50°F (10°C) to 100°F (38°C)
Flash Point: >200°F (93°C), PMCC
Reducer: Water R8K10 - WB Hot Weather Reducer up to 10%
Clean Up: Water

RECOMMENDED USES

For use over prepared:
- Steel
- Galvanizing
- Wood
- Aluminum
- Concrete
- Masonry
- Drywall
- Zinc rich primers
- Water treatment plants

Examples:
- Buildings
- Equipment
- New Construction
- Machinery
- Piping
- Select Marine Structures
- Power plants
- Structural Steel
- Water treatment plants
- Storage Tank Exteriors
- Suitable for use in USDA inspected facilities
- Conforms to AWWA D102 OCS #3
- Acceptable for use in high performance architectural applications.
- Complies with performance criteria of SSPC Paint 24.

PERFORMANCE CHARACTERISTICS

Substrate*: Steel
Surface Preparation*: SSPC-SP10
System Tested*:
- 2 cts. DTM Acrylic Coating @ 3.0 mils (75 microns) dft/ct

Test Name | Test Method | Results
--- | --- | ---
Abrasion Resistance | ASTM D4060, CS17 wheel, 1000 cycles, 1kg load | 107 mg loss
Accelerated Weathering | ASTM D4587, QUV-A, 5,000 hours | Passes
Adhesion | ASTM D4541 | >500 psi
Corrosion Weathering | ASTM D5894, 15 cycles, 5,040 hours | Rating 9 per ASTM D610 for rusting; Rating10 per ASTM D714 for blistering
Direct Impact Resistance | ASTM D2794 | >160 in. lbs.
Dry Heat Resistance | ASTM D2485 | 300°F (149°C)
Exterior Durability | 1 year, 45° South | Excellent
Flexibility | ASTM D522, 180° bend, 1/8” mandrel | Passes
Moisture Condensation Resistance (2 coats) | ASTM D4585, 100°F (38°C), 300 hours | Passes
Pencil Hardness | ASTM D3363 | 2B
Salt Fog Resistance | ASTM B117, 500 hours | Excellent
Flame Spread Rating | ASTM E84-91a | Flame Spread Index - 5 ; Smoke Density Index - 0


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PRODUCT INFORMATION

RECOMMENDED SYSTEMS

<table>
<thead>
<tr>
<th>Surface</th>
<th>Dry Film Thickness / ct. Mils (Microns)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Steel:</strong></td>
<td></td>
</tr>
<tr>
<td>1 ct. DTM Acrylic Primer/Finish</td>
<td>2.5-5.0 (63-125)</td>
</tr>
<tr>
<td>or Kem Bond HS</td>
<td>2.0-5.0 (63-125)</td>
</tr>
<tr>
<td>or Zinc Clad Primer</td>
<td>3.0-5.0 (75-125)</td>
</tr>
<tr>
<td>or ProCryl Primer</td>
<td>2.0-4.0 (50-100)</td>
</tr>
<tr>
<td>2 cts. DTM Acrylic Coating</td>
<td>2.5-4.0 (63-100)</td>
</tr>
<tr>
<td><strong>Steel:</strong></td>
<td></td>
</tr>
<tr>
<td>2 cts. DTM Acrylic Coating*</td>
<td>2.5-4.0 (63-100)</td>
</tr>
<tr>
<td>(Application of coating on unprimed bare steel may cause pinpoint rusting.)</td>
<td></td>
</tr>
<tr>
<td><strong>Aluminum:</strong></td>
<td></td>
</tr>
<tr>
<td>2 cts. DTM Acrylic Coating</td>
<td>2.5-4.0 (63-100)</td>
</tr>
<tr>
<td><strong>Galvanizing:</strong></td>
<td></td>
</tr>
<tr>
<td>2 cts. DTM Acrylic Coating</td>
<td>2.5-4.0 (63-100)</td>
</tr>
<tr>
<td><strong>Concrete Block:</strong></td>
<td></td>
</tr>
<tr>
<td>1 ct. Heavy Duty Block Filler</td>
<td>10.0-18.0 (250-450)</td>
</tr>
<tr>
<td>2 cts. DTM Acrylic Coating</td>
<td>2.5-4.0 (63-100)</td>
</tr>
<tr>
<td><strong>Concrete/Masonry:</strong></td>
<td></td>
</tr>
<tr>
<td>2 cts. DTM Acrylic Coating</td>
<td>2.5-4.0 (63-100)</td>
</tr>
<tr>
<td><strong>Drywall:</strong></td>
<td></td>
</tr>
<tr>
<td>1 ct. ProMar 200 0 VOC Latex Wall Primer</td>
<td>1.0 (25)</td>
</tr>
<tr>
<td>2 cts. DTM Acrylic Coating</td>
<td>2.5-4.0 (63-100)</td>
</tr>
<tr>
<td><strong>Prefinished Siding: (Baked-on finishes)</strong></td>
<td></td>
</tr>
<tr>
<td>1 ct. DTM Bonding Primer</td>
<td>2.0-5.0 (50-125)</td>
</tr>
<tr>
<td>2 cts. DTM Acrylic Coating</td>
<td>2.5-4.0 (63-100)</td>
</tr>
<tr>
<td><strong>Wood, exterior:</strong></td>
<td></td>
</tr>
<tr>
<td>1 ct. Exterior Oil-Based Wood Primer</td>
<td>2.3 (58)</td>
</tr>
<tr>
<td>2 cts. DTM Acrylic Coating</td>
<td>2.5-4.0 (63-100)</td>
</tr>
<tr>
<td><strong>Wood, interior:</strong></td>
<td></td>
</tr>
<tr>
<td>1 ct. Premium Interior Wall &amp; Wood Primer</td>
<td>1.8 (45)</td>
</tr>
<tr>
<td>2 cts. DTM Acrylic Coating</td>
<td>2.5-4.0 (63-100)</td>
</tr>
</tbody>
</table>

*Tinting with BAC, CCE, or EnviroToner at 100% tint strength, using the respective tinting formula pages. Better performance will be achieved with EnviroToners. Five minutes minimum mixing on a mechanical shaker is required for complete mixing of color.

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.

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

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.

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

*Safety Colors, Deep Base, and Ultradeep colors require a prime coat of DTM Acrylic Primer/Finish, B66W1, for maximum durability, adhesion, and corrosion protection.

Aluminum
Remove all oil and grease per SSPC-SP1. Self-priming.

Galvanizing
The surface should be weathered for 6 months prior to painting. Remove all oil and grease per SSPC-SP1. Self-priming.

Concrete and Masonry
For surface preparation, refer to SSPC-SP13/NACE 6 or ICRI No. 310.2R, CSP 1-3. Surfaces should be thoroughly cleaned and dry. Surface temperatures must be at least 55°F (13°C) before filling. Use Heavy Duty Block Filler. Filler must be thoroughly dry before topcoating per manufacturer's recommendations.

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

Previously Painted Surfaces
If in sound condition, clean the 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.

Surface Preparation Standards

<table>
<thead>
<tr>
<th>Condition of Surface</th>
<th>ISO 8501-1</th>
<th>Swedish Std.</th>
<th>SSPC</th>
<th>NACE</th>
</tr>
</thead>
<tbody>
<tr>
<td>White Metal</td>
<td>Sa 3</td>
<td>Sa 3</td>
<td>SP 5</td>
<td>1</td>
</tr>
<tr>
<td>Near White Metal</td>
<td>Sa 2.5</td>
<td>Sa 2.5</td>
<td>SP10</td>
<td>2</td>
</tr>
<tr>
<td>Commercial Blast</td>
<td>Sa 2</td>
<td>Sa 2</td>
<td>SP 6</td>
<td>3</td>
</tr>
<tr>
<td>Brush-Off Blast</td>
<td>Sa 1</td>
<td>Sa 1</td>
<td>SP 7</td>
<td>4</td>
</tr>
<tr>
<td>Hand Tool Cleaning</td>
<td>Rusted</td>
<td>D St 2</td>
<td>SP 2</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Pitted &amp; Rusted</td>
<td>D St 2</td>
<td>SP 2</td>
<td>-</td>
</tr>
<tr>
<td>Power Tool Cleaning</td>
<td>Rusted</td>
<td>D St 3</td>
<td>SP 3</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Pitted &amp; Rusted</td>
<td>D St 3</td>
<td>SP 3</td>
<td>-</td>
</tr>
</tbody>
</table>

Application Conditions

Temperature: 50°F (10°C) minimum, 110°F (43°C) maximum
(air, surface, and material)
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
Water
R8K10 - WB Hot Weather Reducer up to 10%

Clean Up
Water

Airless Spray
Pressure: 1500 psi
Hose: 1/4" ID
Tip: .017" - .021"
Filter: 60 mesh
Reduction: As needed up to 12½% by volume

Conventional Spray
Gun: Binks 95
Fluid Nozzle: 66
Air Nozzle: 63PB
Atomization Pressure: 50 psi
Fluid Pressure: 15-20 psi
Reduction: As needed up to 12½% by volume

Brush
Nylon / polyester
Reduction: Not recommended

Roller
3/8" woven solvent resistant core
Reduction: Not recommended

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

Surface preparation must be completed as indicated.

Mixing Instructions: Mix paint thoroughly to a uniform consistency with low speed power agitation prior to use.

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

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<th>Maximum</th>
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<td>Coverage sq ft/gal (m²/L)</td>
<td>155 (3.8)</td>
<td>250 (6.1)</td>
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<tr>
<td>Theoretical coverage sq ft/gal (m²/L) @ 1 mil / 25 microns dft</td>
<td>608 (14.9)</td>
<td></td>
</tr>
</tbody>
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NOTE: Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance.

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.

PERFORMANCE TIPS

Stripe coat all crevices, welds, and sharp angles to prevent early failure in these areas.

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.

During the early stages of drying, the coating is sensitive to rain, dew, high humidity, and moisture condensation. Plan painting schedules to avoid these influences during the first 16-24 hours of curing.

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.

Excessive reduction of material can affect film build, appearance, and adhesion.

Safety Colors, Deep Base, and Ultradeep colors require a prime coat of DTM Acrylic Primer/Finish, B66W1, for maximum durability, adhesion, and corrosion protection.

Application temperature above 95°F (35°C) may cause dry spray, uneven sheen, and poor adhesion.

Application temperature below 50°F (10°C) may cause poor adhesion and lengthen the drying and curing time.

DTM Acrylic Coating is extremely sensitive to hydrocarbon containing solvents. When cleaning the surface per SSPC-SP1, use only an emulsifying industrial detergent followed by a water rinse.

Do not use hydrocarbon solvents for cleaning.

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

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

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