



Protective & Marine Coatings

DTM ACRYLIC COATING

B66-100 SERIES
B66-200 SERIES

GLOSS
SEMI-GLOSS

Revised 9/09

PRODUCT INFORMATION

1.25

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

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: 50% ± 2%, may vary by color
VOC (EPA Method 24): <250 g/L; 2.08 lb/gal

Recommended Spreading Rate per coat:

	Minimum	Maximum
Wet mils (microns)	6.5 (165)	10.0 (250)
Dry mils (microns)	2.5 (63)	4.0 (100)
~Coverage sq ft/gal (m²/L)	155 (3.8)	250 (6.1)
Theoretical coverage sq ft/gal (m²/L) @ 1 mil / 25 microns dft	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):

	@ 50°F/10°C	@ 77°F/25°C 50% RH	@ 110°F/43°C
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 40°F (4.5°C) to 100°F (38°C)
Flash Point: >200°F (93°C), PMCC
Reducer/Clean Up: Water

RECOMMENDED USES

For use over prepared:

- Steel
- Aluminum
- Drywall
- Water treatment plants
- Galvanizing
- Concrete
- Zinc rich primers
- Wood
- Masonry

Examples:

- Buildings
- Machinery
- Power plants
- Storage Tank Exteriors
- Suitable for use in USDA inspected facilities
- Conforms to AWWA D102-03 OCS #3
- Acceptable for use in high performance architectural applications.
- Equipment
- Piping
- Structural Steel
- New Construction
- Select Marine Structures
- Water treatment plants

PERFORMANCE CHARACTERISTICS

Substrate*: Steel

Surface Preparation*: SSPC-SP10

System Tested*:

1 ct. DTM Acrylic Coating @ 3.0 mils (75 microns)
*unless otherwise noted below

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 ; Rating 10 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

Provides performance comparable to products formulated to federal specification: AA50570, and Paint Specification: SSPC-Paint 23 and 24.



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RECOMMENDED SYSTEMS

	Dry Film Thickness / ct.	
	Mils	(Microns)
Steel:		
1 ct. DTM Acrylic Primer/Finish	2.5-5.0	(63-125)
or Kem Bond HS	2.0-5.0	(63-125)
or Zinc Clad Primer	3.0-5.0	(75-125)
or ProCryl Primer	2.0-4.0	(50-100)
2 cts. DTM Acrylic Coating	2.5-4.0	(63-100)
Steel:		
2 cts. DTM Acrylic Coating*	2.5-4.0	(63-100)
(Application of coating on unprimed bare steel may cause pinpoint rusting.)		
Aluminum:		
2 cts. DTM Acrylic Coating	2.5-4.0	(63-100)
Aluminum:		
1 ct. DTM Wash Primer	0.7-1.3	(18-32)
2 cts. DTM Acrylic Coating	2.5-4.0	(63-100)
Galvanizing:		
2 cts. DTM Acrylic Coating	2.5-4.0	(63-100)
Concrete Block:		
1 ct. Heavy Duty Block Filler	10.0-18.0	(250-450)
2 cts. DTM Acrylic Coating	2.5-4.0	(63-100)
Concrete/Masonry:		
2 cts. DTM Acrylic Coating	2.5-4.0	(63-100)
Drywall:		
1 ct. PrepRite 200 Latex Primer	1.0-1.5	(25-38)
2 cts. DTM Acrylic Coating	2.5-4.0	(63-100)
Prefinished Siding: (Baked-on finishes)		
1 ct. DTM Bonding Primer	2.0-5.0	(50-125)
2 cts. DTM Acrylic Coating	2.5-4.0	(63-100)
Wood, exterior:		
1 ct. A-100 Exterior Oil Wood Primer	1.5	(38)
2 cts. DTM Acrylic Coating	2.5-4.0	(63-100)
Wood, interior:		
1 ct. PrepRite Wall & Wood Primer	1.5	(38)
2 cts. DTM Acrylic Coating	2.5-4.0	(63-100)

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

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:

* Iron & Steel:	SSPC-SP2
Aluminum:	SSPC-SP1
Galvanizing:	SSPC-SP1
Concrete & Masonry:	SSPC-SP13/NACE6 or ICRI 03732, CSP 1-3
Wood:	Dry and sanded smooth. Primer required.

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

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 7	4
Brush-Off Blast	Sa 1	Sa 1	SP 2	-
Hand Tool Cleaning	St 2	St 2	SP 2	-
Pitted & Rusty	St 2	St 2	SP 2	-
Rusted	St 3	St 3	SP 3	-
Power Tool Cleaning	St 3	St 3	SP 3	-
Pitted & Rusty	St 3	St 3	SP 3	-

TINTING

Tint with Blend-A-Color Toner 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.

Tinting with Blend-A-Color can affect the flash/early rust resistance of the coating.

APPLICATION CONDITIONS

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

Refer to product Application Bulletin for detailed application information.

ORDERING INFORMATION

Packaging:	1 (3.78L) and 5 gallon (18.9L) containers
Weight:	10.2 ± 0.2 lb/gal 1.22 Kg/L
	May vary by color.

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

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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 03732, 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

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	C St 2	C St 2	SP 2	-
Pitted & Rusted	D St 2	D St 2	SP 2	-
Rusted	C St 3	C St 3	SP 3	-
Power Tool Cleaning	D St 3	D St 3	SP 3	-

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/Clean UpWater

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

Brush..... Nylon / polyester
Reduction..... Not recommended

Roller

Cover 3/8" woven solvent resistant core
Reduction..... Not recommended

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



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APPLICATION BULLETIN

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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:

Recommended Spreading Rate per coat:

	Minimum	Maximum
Wet mils (microns)	6.5 (165)	10.0 (250)
Dry mils (microns)	2.5 (63)	4.0 (100)
~Coverage sq ft/gal (m ² /L)	155 (3.8)	250 (6.1)
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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):

	@ 50°F/10°C	@ 77°F/25°C 50% RH	@ 110°F/43°C
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.

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

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

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