

# Pro Industrial™ DTM Acrylic Primer-Finish

B66W00011 White


**SHERWIN  
WILLIAMS®**

## CHARACTERISTICS

**Pro Industrial DTM Acrylic Primer-Finish** is an advanced acrylic emulsion, waterborne, corrosion resistant coating for both new construction and industrial applications. It can be used as a primer under most water based topcoats or alone as a primer-topcoat system. It can be used directly over multiple substrates.

### Features:

- Flash-Early rust resistant
- Corrosion resistant
- Single component
- Early moisture resistant
- Fast dry
- Interior and exterior use
- Suitable for use in USDA inspected facilities

### For use on properly prepared:

Steel, Galvanized & Aluminum, Concrete and Masonry.

**Finish:** 10-20° @60°

**Color:** White

### Recommended Spreading Rate per coat:

Wet mils: 5.0-10.0

Dry mils: 1.9-3.9

Coverage: 160-328 sq.ft. per gallon

**Theoretical Coverage:** 625 sq. ft. per gallon  
@ 1 mil dry

Approximate spreading rates are calculated on volume solids and do not include any application loss.

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

### Drying Schedule @ 6.0 mils wet, @ 50% RH:

Drying, and recoat times are temperature, humidity, and film thickness dependent.

	@55°F	@77°F	@120°F
To touch	1 hour	40 minutes	20 minutes
Tack free	6 hours	4 hours	2 hours
To recoat	8 hours	4 hours	2 hours

**Tinting with CCE only:** 2 oz. per gallon maximum  
Product is not controlled for tint strength.

### White B66W00011

### V.O.C. (less exempt solvents):

less than 50 grams per litre; 0.42 lbs. per gallon  
As per 40 CFR 59.406

**Volume Solids:** 39 ± 2%

**Weight Solids:** 51 ± 2%

**Weight per Gallon:** 10.35 lb

**Flash Point:** N/A

**Shelf Life:** 36 months, unopened

## COMPLIANCE

As of 11/11/2021, Complies with:

<b>OTC</b>	<b>Yes</b>
<b>OTC Phase II</b>	<b>Yes</b>
<b>S.C.A.Q.M.D.</b>	<b>Yes</b>
<b>CARB</b>	<b>Yes</b>
<b>CARB SCM 2007</b>	<b>Yes</b>
<b>CARB SCM 2020</b>	<b>Yes</b>
<b>Canada</b>	<b>Yes</b>
<b>LEED® v4 &amp; v4.1 Emissions</b>	<b>Yes</b>
<b>LEED® v4 &amp; v4.1 V.O.C.</b>	<b>Yes</b>
<b>EPD-NSF® Certified</b>	<b>Yes</b>
<b>MIR-Manufacturer Inventory</b>	<b>Yes</b>
<b>NSF® Certification</b>	<b>Yes</b>
<b>MPI®</b>	<b>Yes</b>

## APPLICATION

### Temperature:

minimum 50°F  
maximum 120°F

air, surface, and material

At least 5°F above dew point

**Relative humidity:** 85% maximum

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 compatible with the existing environmental and application conditions.

**Reducer:** Water

### Airless Spray:

Pressure 2000 p.s.i.

Hose 1/4 inch I.D.

Tip .015 - .019 inch

Filter 60 mesh

### Conventional Spray:

Gun Binks 95

Fluid Nozzle 66

Air Nozzle 63 PB

Atomization Pressure 60 p.s.i.

Fluid Pressure 25 p.s.i.

**Reduction:** as needed up to 5 % by volume

**Brush** Nylon-polyester

**Roller Cover** 3/8 inch woven

If specific application equipment is listed above, equivalent equipment may be substituted.

Apply paint at the recommended film thickness and spreading rate as indicated. Application of coating above maximum or below minimum recommended spreading rate may adversely affect coating performance.

Stripe coat crevices, welds, and sharp angles to prevent early failure in these areas. For best results on rusty surfaces, always apply first coat by brush.

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.

No painting should be done immediately after a rain or during foggy weather.

Do not use solvent oil or alkyd topcoats, epoxies or urethanes over **DTM Acrylic Primer-Finish**.

## SPECIFICATIONS

### Steel:

2 coats Pro Industrial DTM Acrylic Primer-Finish

### Steel:

1 coat Pro Industrial DTM Acrylic Primer-Finish

1-2 coats Acceptable Topcoat

### Aluminum:

2 coats Pro Industrial DTM Acrylic Primer-Finish

### Aluminum:

1 coat Pro Industrial DTM Acrylic Primer-Finish

1-2 coats Acceptable Topcoat

### Concrete Block (CMU):

1 coat Pro Industrial Heavy Duty Blockfiller

or Loxon Acrylic Block Surfacer

1-2 coats Pro Industrial DTM Acrylic Primer-Finish

### Concrete-Masonry:

1 coat Loxon Concrete & Masonry Primer

or Loxon Conditioner

2 coats Pro Industrial DTM Acrylic Primer-Finish

### Drywall:

1 coat ProMar 200 Zero V.O.C. Primer

1-2 coats Pro Industrial DTM Acrylic Primer-Finish

### Galvanizing:

2 coats Pro Industrial DTM Acrylic Primer-Finish

### Acceptable topcoats:

Architectural Water Based Acrylic Coatings

Metalatex Coating

Pro Industrial Acrylic Coating

Pro Industrial Acrylic Dryfall

Pro Industrial DTM Acrylic

Pro Industrial Multi-Surface Acrylic

Pro Industrial Pre-Catalyzed Epoxy

Pro Industrial Water Based Alkyd Urethane

Pro Industrial Water Based Catalyzed Epoxy

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

# Pro Industrial™

## DTM Acrylic Primer-Finish

### 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.

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

Remove all surface contamination by washing with an appropriate cleaner, rinse thoroughly and allow to dry. Existing peeled or checked paint should be scraped and sanded to a sound surface. Glossy surfaces should be sanded dull. Stains from water, smoke, ink, pencil, grease, etc. should be sealed with the appropriate primer/sealer. Recognize that any surface preparation short of total removal of the old coating may compromise the service length of the system.

**Iron & Steel** - Minimum surface preparation is Hand Tool Cleaning per SSPC-SP2. Remove all oil and grease from the surface per SSPC-SP1. For better performance, use Commercial Blast Cleaning per SSPC-SP6. Prime the area the same day as cleaned. Self priming

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

**Galvanizing** - 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-SP16 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. Self priming.

**Concrete Block** - Surface should be thoroughly clean and dry. Air, material and surface temperatures must be at least 55°F (13°C) before filling. Use Pro industrial Heavy Duty Block Filler or Loxon Acrylic Block Surfacer. The filler must be thoroughly dry before topcoating.

**Masonry** - All masonry must be free of dirt, oil, grease, loose paint, mortar, masonry dust, etc. Clean per SSPC-SP13 - Nace 6 - ICRI No. 310.2R, CSP 1-3. Poured, troweled, or tilt-up concrete, plaster, mortar, etc. must be thoroughly cured at least 30 days at 75°F. Form release compounds and curing membranes must be removed by brush blasting. Brick must be allowed to weather for one year prior to surface preparation and painting. Prime the area the same day as cleaned. Weathered masonry and soft or porous cement board must be brush blasted or power tool cleaned to remove loosely adhering contamination and to get to a hard, firm surface. Apply one coat Loxon Conditioner, following label recommendations.

**Previously Painted Surface** - 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. Recognize that any surface preparation short of total removal of the old coating may compromise the service length of the system.

### SURFACE PREPARATION

**Mildew**- Prior to attempting to remove mildew, it is always recommended to test any cleaner on a small, inconspicuous area prior to use. Bleach and bleaching type cleaners may damage or discolor existing paint films. Bleach alternative cleaning solutions may be advised.

Mildew may be removed before painting by washing with a solution of 1 part liquid bleach and 3 parts water. Apply the solution and scrub the mildewed area. Allow the solution to remain on the surface for 10 minutes. Rinse thoroughly with water and allow the surface to dry before painting. Wear protective eyewear, waterproof gloves, and protective clothing. Quickly wash off any of the mixture that comes in contact with your skin. Do not add detergents or ammonia to the bleach-water solution.

### PERFORMANCE

**System Tested:** (unless otherwise indicated)

**Substrate:** Steel

**Surface Preparation:** SSPC-SP10

**Finish:** 2 coats Pro Industrial DTM Primer-Finish, 3 mils D.F.T. per coat

#### **Abrasion Resistance:**

**Method:** ASTM D4060, CS17 wheel, 1000 cycles, 1000 mg load  
**Result:** 225 mg loss

#### **Accelerated Weathering:**

**Method:** ASTM D4587, QUV-A,4,000 hrs  
**Result:** Passes

#### **Adhesion:**

**Method:** ASTM D4541  
**Result:** greater than 500 p.s.i.

#### **Corrosion Weathering:**

**Method:** ASTM D5894, 12 cycles  
**Result:** Rating 10, per ASTM D714 for Blistering. Rating 9 per ASTM D610 for corrosion

#### **Direct Impact Resistance:**

**Method:** ASTM D2794  
**Result:** greater than 140 inch lb.

#### **Dry Heat Resistance:**

**Method:** ASTM D2485  
**Result:** 250°F

#### **Flexibility:**

**Method:** ASTM D522, 1/4 inch mandrel  
**Result:** Pass

#### **Pencil Hardness:**

**Method:** ASTM D3363  
**Result:** H

#### **Salt Fog Resistance:**

**Method:** ASTM B117, 500 hours  
**Result:** Excellent

#### **Moisture Condensation Resistance:**

**Method:** ASTM D4585, 100°F (38°C)  
**Result:** Excellent

#### **WVP Perms (US):**

**Result:** grains/(hr ft<sup>2</sup> in Hg) 12.74

Provides performance comparable to products formulated In Lieu of federal specification: AA50557 and Paint Specification: SSPC-Paint 23.

### SAFETY PRECAUTIONS

Before using, carefully read **CAUTIONS** on label. Refer to the Safety Data Sheets (SDS) before use.

#### **FOR PROFESSIONAL USE ONLY.**

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

### CLEANUP INFORMATION

Clean spills, splatters, hands and tools immediately after use with soap and warm water. After cleaning, flush spray equipment with compliant cleanup solvent to prevent rusting of the equipment. Follow manufacturer's safety recommendations when using solvents.

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