



# Protective & Marine Coatings

# STEEL SPEC™ FAST DRY UNIVERSAL METAL PRIMER

B50WW7  
B50RW3  
B50AW3  
B50BW3

WHITE  
RED  
GRAY  
BLACK

Revised: March 16, 2015

## PRODUCT INFORMATION

### PRODUCT DESCRIPTION

**STEEL SPEC FAST DRY UNIVERSAL METAL PRIMER** is a fast drying, high solids, weldable, heavy metal free, rust inhibitive, universal, alkyd metal primer. It can be topcoated with alkyd, acrylic, and high performance coatings. Also suitable as a barrier coat over conventional coatings which would normally be attacked by strong solvents in high performance coatings.

- High build to protect abrasive blasted steel
- Good corrosion and rust protection
- Can be used as a "universal" primer under high performance topcoats
- Fast drying
- Suitable for use in USDA inspected facilities

### PRODUCT CHARACTERISTICS

Finish:	Flat
Color:	White, Red, Gray, Black
Volume Solids:	63% ± 2%, may vary by color
Weight Solids:	81% ± 2%, may vary by color
VOC:	<340 g/L; 2.8 lb/gal

#### Recommended Spreading Rate per coat:

	Minimum	Maximum
Wet mils (microns):	3.0 (75)	6.5 (163)
Dry mils (microns):	2.0 (50)	4.0 (100)
~Coverage sq ft/gal (m <sup>2</sup> /L):	252 (6.2)	504 (12.7)

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

#### Drying Schedule @ 4.0 mils wet @ 50% RH:

	@ 40°F/4.5°C	@ 77°F/25°C	@ 120°F/49°C
To touch:	15 minutes	15 minutes	10 minutes
Tack-Free:	3.5 hours	30 minutes	2 hours
Dry-Hard:	4.5 hours	4 hours	2.5 hours
To handle:	5.5 hours	5 hours	3 hours
To recoat (itself):	8.5 hours	5 hours	3 hours

If maximum recoat time is exceeded, abrade surface before recoating.

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:	Black: 80°F (27°C), PMCC White: 90°F (32°C), PMCC Red: 102°F (39°C), PMCC Gray: 103°F (39°C), PMCC
Reducer/Clean Up:	Xylene

### RECOMMENDED USES

For industrial application on steel to protect against atmospheric corrosion. Interior/exterior use. A premium shopcoat primer. For use under a variety of coatings, including high performance topcoats.

- Rail Cars
- Structural Steel
- Machinery and Equipment
- Piping and Pipe Racks
- Marine Applications
- Tanks
- Bridges
- Vessels
- Bulkheads

According to AISC, shop coat primers are intended for protection for only a short period of exposure in ordinary atmospheric conditions, and is considered a temporary and provisional coating.

Not recommended for immersion service or exposure to acids or alkalis.

### PERFORMANCE CHARACTERISTICS

- Passes ANSI/AWS D1.1 when applied at 2 mils (50 microns) dft



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### RECOMMENDED SYSTEMS

		Dry Film Thickness / ct.	
		Mils	(Microns)
<b>Steel, Alkyd Topcoat:</b>			
1 ct.	STEEL SPEC Fast Dry Universal Metal Primer	2.0-4.0	(50-100)
1-2 cts.	Industrial Enamel HS Series	2.0-4.0	(50-100)
<b>Steel, Aluminum Finish:</b>			
1 ct.	STEEL SPEC Fast Dry Universal Metal Primer	2.0-4.0	(50-100)
1-2 cts.	Silver-Brite Aluminum	1.0-1.5	(25-38)
<b>Steel, Epoxy Topcoat:</b>			
1 ct.	STEEL SPEC Fast Dry Universal Metal Primer	2.0-4.0	(50-100)
1-2 cts.	Epolon II Multi-Mil Epoxy	3.0-6.0	(75-150)
<b>Steel, Acrylic Topcoat:</b>			
Topcoat only after 16 hours minimum dry @ 77°F (25°C) & 50% RH			
1 ct.	STEEL SPEC Fast Dry Universal Metal Primer	2.0-4.0	(50-100)
1-2 cts.	Pro Industrial DTM Acrylic	2.5-4.0	(63-100)
<b>Steel, Polyurethane Topcoat:</b>			
1 ct.	STEEL SPEC Fast Dry Universal Metal Primer	2.0-4.0	(50-100)
1-2 cts.	Hi-Solids Polyurethane	3.0-4.0	(75-100)

### 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.

Refer to product Application Bulletin for detailed surface preparation information.

Minimum recommended surface preparation:

Iron & Steel: SSPC-SP2

#### Surface Preparation Standards

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

### COLOR AVAILABILITY / TINTING

Do not tint.

### APPLICATION CONDITIONS

Temperature: 40°F (4.5°C) minimum, 120°F (49°C) maximum  
(air, surface, and material)  
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: 5 gallon (18.9L) containers and 53 gallon (200L) drums

Weight per gallon: 13.9 ± 0.2 lb ; 1.7 Kg/L (White)  
varies 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.

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.



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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.

#### Iron & Steel

Minimum surface preparation is Hand Tool Clean per SSPC-SP2. Remove all oil and grease from surface by Solvent Cleaning per SSPC-SP1. For better performance, use Commercial Blast Cleaning per SSPC-SP6/NACE 3, blast clean all surfaces using a sharp, angular abrasive for optimum surface profile (2 mils or 50 microns). Prime any bare steel within 8 hours or before flash rusting occurs.

#### 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, or if this product attacks the previous finish, removal of the previous coating may be necessary. If paint is peeling or badly weathered, clean surface to sound substrate and treat as a new surface as above.

### APPLICATION CONDITIONS

Temperature: 40°F (4.5°C) minimum, 120°F (49°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 .....Xylene

#### Airless Spray

Pressure..... 1800 psi minimum  
Hose..... 1/4 - 3/8" ID  
Tip ..... .017" - .019"  
Filter ..... 60 mesh  
Reductions ..... as needed up to 5% by volume

Conventional Spray ..... Not recommended

#### Brush

Brush..... Natural Bristle or Nylon Polyester  
Reduction..... Not recommended

#### Roller

Cover ..... 1/4 - 3/8" woven with solvent resistant core  
Reduction..... Not recommended

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

### 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	DC St 2	DC St 2	SP 2	-
Pitted & Rusty	DC St 2	DC St 2	SP 2	-
Rusty	DC St 3	DC St 3	SP 3	-
Power Tool Cleaning	Pitted & Rusty	D St 3	D St 3	-



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## APPLICATION BULLETIN

### APPLICATION PROCEDURES

Surface preparation must be completed as indicated.

**Mixing Instructions:** Mix paint thoroughly by boxing and stirring before use.

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

#### Recommended Spreading Rate per coat:

	Minimum	Maximum
<b>Wet mils (microns):</b>	<b>3.0</b> (75)	<b>6.5</b> (163)
<b>Dry mils (microns):</b>	<b>2.0</b> (50)	<b>4.0</b> (100)
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**NOTE:** Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance.

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<b>To handle:</b>	5.5 hours	5 hours	3 hours
<b>To recoat (itself):</b>	8.5 hours	5 hours	3 hours

*If maximum recoat time is exceeded, abrade surface before recoating.*

*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 Xylene. Clean tools immediately after use with Xylene. Follow manufacturer's safety recommendations when using any solvent.

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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.

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.

In order to avoid blockage of spray equipment, clean equipment before use or before periods of extended downtime with Xylene, R2K4.

Intimate contact of the steel surface and primer is necessary for adhesion and rust inhibition.

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

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