SHERWIN VVILLIAMS.	Protective & Marine Coatings		HI-SOLIDS METAL		
Revised Septem	nber 13, 2016	RODUCT	NFORMATION	2.10	
	PRODUCT DESCRIPTION		Recommended Uses		
<ul> <li>HI-SOLIDS ALKYD METAL PRIMER is a fast drying, high solids, low VOC, rust inhibitive, alkyd primer for steel surfaces. It is free of heavy metal hazards. It is easy to apply by spray and has good resistance to general atmospheric weathering. It can be topcoated with alkyd and latex coatings.</li> <li>Fast drying maintenance primer</li> <li>Low VOC formulation below 340 g/L; 2.8 lb/gal.</li> <li>Heavy metal free pigmentation</li> <li>Rust inhibitive</li> <li>Excellent application characteristics</li> </ul>		<ul> <li>For industrial and commercial application to steel, to protect against atmospheric corrosion.</li> <li>Interior and exterior use</li> <li>Use as a field or shop primer</li> <li>Bridges <ul> <li>Towers</li> <li>Marine vessels</li> <li>Structural steel</li> </ul> </li> <li>Suitable for use in USDA inspected facilities</li> <li>Conforms to AWWA D102 OCS #1</li> <li>According to AISC, shop coat primers are intended for protection</li> </ul>			
<b>P</b> RODUCT <b>C</b> HARACTERISTICS		for only a short period of exposure in ordinary atmospheric conditions, and is considered a temporary and provisional coating			
Finish: Color:	Low Sheen Reddish Brown, Off Wi	hite	Not recommended for immersion service alkalis, or strong solvents.	or exposure to acids,	
Volume Solids:	65% ± 2%		PERFORMANCE CHARAC	TERISTICS	
Weight Solids: VOC (EPA Method		/L; 2.65 lb/gal /L; 2.80 lb/gal	<ul> <li>High build to protect abrasive blasted s</li> <li>Good corrosion and rust undercutting p</li> <li>Abrasion resistant</li> </ul>		
Recommended Spreading Rate per coat:MinimumMaximumWet mils (microns)5.0 (125)8.0 (200)Dry mils (microns)3.0 (75)5.0 (125)~Coverage sq ft/gal (m²/L)205 (5.0)342 (8.4)Theoretical coverage sq ft/gal (m²/L) @ 1 mil / 25 microns dft1040 (25.5)NOTE: Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance.		<ul> <li>Primer for use under a variety of acrylic</li> <li>Field or shop primer</li> </ul>	e and alkyd topcoats		
Drying Schedule @ 5.0 mils wet (125 microns):					
To touch: To handle: To recoat: with alkyds To stack: To cure: Note: For maximum	<ul> <li>40°F/4.5°C @ 77°F/25°C 50% RH</li> <li>1 hour</li> <li>25 minutes</li> <li>2 hours</li> <li>45 minutes</li> <li>4 hours</li> <li>1 hour</li> <li>4 hours</li> <li>1.5 hours</li> <li>7 days</li> <li>5 days</li> <li>n adhesion, acrylic topcoats required of primer.</li> </ul>	@ 110°F/43°C 15 minutes 30 minutes 1 hour 1.5 hours 3 days re 48 - 72 hours			

Drying time is temperature, humidity, and film thickness dependent. 36 months, unopened Store indoors at 40°F (4.5°C) to 100°F (38°C). Shelf Life: Flash Point: 74°F (24°C), PMCC Reducer/Clean Up: Xylene, R2K4



## **HI-SOLIDS ALKYD** METAL PRIMER

**B50NZ2 B50WZ3**  **Reddish Brown** OFF WHITE

Revised September 13, 2016

Application Bulletin.

### **PRODUCT INFORMATION**

2.10

Recommended Systems		SURFACE PREPARATION					
<b>e</b> /		Dry Film T <u>Mils</u>	hickness / ct. ( <u>Microns)</u>		dry, and in sound condition. Remove all		
1 ct.	<b>alkyd topcoat:</b> Hi-Solids Alkyd Metal Primer	3.0-5.0	(75-125)	ensure adequate adhes	oose rust, and other foreign material to sion.		
1-2 cts. or	Industrial Enamel HS Steel-Spec FD Alkyd	2.0-4.0 3.0-5.0	(50-100) (75-125)	Refer to product Application information.	ation Bulletin for detailed surface prepara-		
<b>Steel, a</b> 1 ct.	aluminum topcoat: Hi-Solids Alkyd	3.0-5.0	(75-125)	Minimum recommended Iron & Steel:	surface preparation: SSPC-SP2		
1-2 cts.	Metal Primer Silver-Brite Aluminum	1.0-1.5	(25-40)				
	acrylic topcoat:			Surfac	ce Preparation Standards n of ISO 8501-1 Swedish Std.		
1 ct.	Hi-Solids Alkyd Metal Primer	3.0-5.0	(75-125)	White Metal Near White Metal	BS7079:A1 SIS055900 SSPC NACE Sa 3 Sa 3 SP 5 1 Sa 2 5 Sa 2 5 SP 1 0 2		
2 cts.	Pro Industrial DTM Acrylic Coating	2.5-4.0	(63-100)	Commercial Blast Brush-Off Blast Hand Tool Cleaning Rusted Power Tool Cleaning Pitted & F Pitted & F	Sa 2 Sa 2 SP 6 3 Sa 1 Sa 1 SP 7 4 C St 2 C St 2 SP 2 - Rusted D St 2 D St 2 SP 2 -		
	silicone alkyd topcoat:			Pitted & F	Rusted D St 3 D St 3 SP 3 -		
1 ct.	Hi-Solids Alkyd Metal Primer	3.0-5.0	(75-125)		TINTING		
1-2 cts.	Steel-Master 9500	2.0-3.0	(50-75)	Do not tint.			
Steel; (	urethane alkyd:			Appl	ICATION CONDITIONS		
1 ct.	Hi-Solids Alkyd Metal Primer	3.0-5.0	(75-125)	Temperature:	40°F (4.5°C) minimum, 120°F (49°C)		
1-2 cts.	Industrial Urethane Alkyd Enamel	2.0-4.0	(50-100)	Relative humidity:	maximum (air, surface, and material) At least 5°F (2.8°C) above dew point 85% maximum		
	stems listed above are represe ystems may be appropriate.	entative of the	product's use,	Refer to product Application	n Bulletin for detailed application information.		
ouner s	ystems may be appropriate.			ORD	ering Information		
				Packaging:	1 gallon (3.78L) and 5 gallon (18.9L) containers		
				Weight:	13.9 ± 0.2 lb/gl 1.67 Kg/L		
				SAF	ETY PRECAUTIONS		
				Refer to the MSDS sheet bef	ore use.		
					I instructions are subject to change without notice. ns representative for additional technical data and		
Diago annas					WARRANTY		
<b>DiscLaimer</b> 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			Villiams Company. ject to change and sult your Sherwin-	ing defects in accord with app Liability for products proven do tive product or the refund of t determined by Sherwin-Willia	any warrants our products to be free of manufactur- licable Sherwin-Williams quality control procedures. efective, if any, is limited to replacement of the defec- he purchase price paid for the defective product as ams. NO OTHER WARRANTY OR GUARANTEE SHERWIN-WILLIAMS, EXPRESSED OR IMPLIED.		

# RECAUTIONS

#### RRANTY

ants our products to be free of manufacturherwin-Williams quality control procedures. if any, is limited to replacement of the defecase price paid for the defective product as OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY SHERWIN-WILLIAMS, EXPRESSED OR IMPLIED, STATUTORY, BY OPERATION OF LAW OR OTHERWISE, INCLUDING MER-CHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE



SURFACE PREPARATIONS

Surface must be clean, dry, and in sound condition. Remove all

oil, dust, grease, dirt, loose rust, and other foreign material to

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 /

50 microns). Prime any bare steel within 8 hours or before flash

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.

# HI-SOLIDS ALKYD METAL PRIMER

B50NZ2 B50WZ3 Reddish Brown Off White

Revised September 13, 2016

ensure adequate adhesion.

**Previously Painted Surfaces** 

Iron & Steel

rusting occurs.

### **APPLICATION BULLETIN**

2.10

#### **APPLICATION** CONDITIONS

Temperature:

Relative humidity:

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 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 Up .....Xylene, R2K4

#### Airless Spray

Pressure	1800 - 3000 psi
Hose	1/4" ID
Тір	015"019"
Filter	60 mesh
Reduction	Not recommended

#### **Conventional Spray**

Gun	Binks 95
Fluid Nozzle	63C
Air Nozzle	63PB
Atomization Pressure	50 psi
Fluid Pressure	15-20 psi
Reduction	As needed up to 5% by volume

Brush (for small areas only)

Brush.....Natural Bristle Reduction.....Not recommended

Roller .....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 Near White Metal Commercial Blast Brush-Off Blast	Durited	Sa 3 Sa 2.5 Sa 2 Sa 1	Sa 3 Sa 2.5 Sa 2 Sa 1	SP5 SP10 SP6 SP7	1 2 3 4
Hand Tool Cleaning Power Tool Cleaning	Rusted Pitted & Rusted Rusted Pitted & Rusted	C St 2 D St 2 C St 3 D St 3	C St 2 D St 2 C St 3 D St 3	SP 2 SP 2 SP 3 SP 3	- - -



# **HI-SOLIDS ALKYD METAL PRIMER**

**B50NZ2 B50WZ3**  **R**EDDISH **B**ROWN **OFF WHITE** 

Revised September 13, 2016 APPLICATIO	N BULLETIN 2.10	
<b>A</b> PPLICATION <b>P</b> ROCEDURES	PERFORMANCE TIPS	
AppLication ProceduresSurface 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:MinimumMaximum MaximumWet mils (microns)5.0 (125) 3.0 (75)Coverage sq ft/gal (m²/L)205 (5.0) 205 (5.0)Protectical coverage sq ft/gal (m²/L) @ 1 mil / 25 microns dft1040 (25.5)NOTE: Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance.Drying Schedule @ 5.0 mils wet (125 microns): @ 40°F/4.5°C S0% RH0 minutes To induct: To hoursTo touch:1 hour25 minutes 15 minutesTo touch:1 hour25 minutes 15 minutesTo recoat: with alkyds4 hours1 hour 1 hourMinimus1 hour 1 hour1 hour 1 hour	PERFORMANCE TIPS           Stripe coat all crevices, welds, and sharp angles to prevent earl failure in these areas.           When using spray application, use a 50% overlap with each pas 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 includ an application loss factor due to surface profile, roughness or por rosity of the surface, skill and technique of the applicator, metho of application, various surface irregularities, material lost durin mixing, spillage, overthinning, climatic conditions, and excessiv film build.           Excessive reduction of material can affect film build, appearance and adhesion.           In order to avoid blockage of spray equipment, clean equipmer 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.           Primer coats should not be left untopcoated in excess of si months.	
To cure:7 days5 days3 daysNote:For maximum adhesion, acrylic topcoats require 48 - 72 hours drying of primer.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.	Brush application should be confined to small areas and touch-up. Refer to Product Information sheet for additional performance characteristics and properties.           SAFETY PRECAUTIONS           Refer to the MSDS sheet before use.	
<b>CLEAN UP INSTRUCTIONS</b> Clean spills and spatters immediately with Xylene, R2K4. Clean tools immediately after use with Xylene, R2K4. Follow manufac-	Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams representative for additional technical data and instructions.	
turer's safety recommendations when using any solvent.	WARRANTY	
<b>Disclaimer</b> 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.	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 MER-CHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.	