



# Protective & Marine Coatings

## STEEL SPEC™ FAST DRY ALKYD TOPCOAT

B55-800 SERIES

Revised: February 13, 2023

### PRODUCT INFORMATION

2.19

#### PRODUCT DESCRIPTION

Steel Spec Fast Dry Alkyd is a one component modified alkyd.

- Formulated for fast drying and curing
- Recoat in 1 hour
- Allows multiple coats to be applied during one shift.
- Dries fast for quick handling times to increase productivity
- Excellent airless spray properties

#### PRODUCT CHARACTERISTICS

Finish:	Gloss
Color:	Wide range of colors available
Volume Solids:	67.5% ± 2% (calculated) may vary by color
Weight Solids:	82% ± 2% May vary be color
VOC (EPA Method 24):	<250 g/L; 2.08 lb/gal

#### Recommended Spreading Rate per coat:

	Minimum	Maximum
Wet mils (microns)	4.5 112	7.5 188
Dry mils (microns)	3.0 75	5.0 125
~Coverage sq ft/gal (m <sup>2</sup> /L)	217 5.3	361 8.8
Theoretical coverage sq ft/gal (m <sup>2</sup> /L) @ 1 mil / 25 microns dft	1080 26.5	

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	@ 77°F/25°C 50% RH	@ 100°F/38°C
To touch:	30 minutes	20 minutes	10 minutes
To handle:	15 hours	3-4 hours	2.5 hours
To recoat:	4 hours	1 hour	45 minutes
To cure:	14 days	7 days	4 days

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

Shelf Life:	24 months, unopened Store indoors at 40°F (4.5°C) to 100°F (38°C).
Flash Point:	69°F (21°C), Seta Flash
Reducer/Clean Up*:	VOC Restricted Areas (≤250 g/L): use Acetone R6K9

\*Other areas (>250 g/L): use Acetone R6K9. Or use Xylene R2K4 (below 80°F/27°C), or Aromatic Naphtha R2K5 (above 80°F/27°C). Choose a reducer that is compliant in your area. Confirm compliance with state and local air quality rules before use.

#### RECOMMENDED USES

- Suitable for use on structural steel where fast dry and handling times are required
- Use when multiple coats need to be applied during one shift
- Exterior/interior enamel
- Machinery and equipment finish
- A utility enamel with multiple uses
- When properly applied and cured, meets the requirements of USDA FSIS and the CFIA for incidental, indirect food contact of construction materials.

#### PERFORMANCE CHARACTERISTICS

Substrate\*: Steel

Surface Preparation\*: SSPC-SP10/NACE 2

System Tested\*:

1 ct. Kem Kromik Universal Primer @ 3.0-4.0 mils (75-100 microns) dft

1 ct. Steel Spec FD Alkyd @ 3.0-5.0 mils (75-125 microns) dft

\*unless otherwise noted below

Test Name	Test Method	Results
Abrasion Resistance (Topcoat only)	ASTM D4060, CS17 wheel, 1000 cycles, 1 kg load	190 mg loss
Adhesion	ASTM D4541	323 psi
Corrosion Resistance	ASTM D5894, 4 cycles, 1680 hours	Rating 8 per ASTM D610 for Rusting; Rating 9 per ASTM D714 for Blistering
Direct Impact Resistance (Topcoat only)	ASTM G14	30 in. Lbs.
Dry Heat Resistance	ASTM D2485	200°F (93°C)
Flexibility (topcoat only)	ASTM D522, 180° bend, 3/16" mandrel	Passes
Pencil Hardness	ASTM D3363	B
Salt Fog Resistance	ASTM B117, 1500 hours	Rating 10 per ASTM D610 for Rusting (field); Rating 10 per ASTM D714 for Blistering

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#### RECOMMENDED SYSTEMS

		Dry Film Thickness / ct.	
		Mils	(Microns)
<b>Steel:</b>			
1 ct.	High Solids Alkyd Primer	3.0-5.0	(75-125)
1 ct.	Steel Spec FD Alkyd Topcoat	3.0-5.0	(75-125)
<b>Steel:</b>			
1 ct.	Steel Spec RIP Primer	2.0-3.0	(50-75)
1 ct.	Steel Spec FD Alkyd Topcoat	3.0-5.0	(75-125)
<b>Steel:</b>			
1 ct.	Kem Kromik Universal Metal Primer	3.0-4.0	(75-100)
1 ct.	Steel Spec FD Alkyd Topcoat	3.0-5.0	(75-125)

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

#### 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

\* Requires primer

##### 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	Rusted	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	Pitted & Rusted	D St 3	D St 3	SP 3	-

#### TINTING

Tint with Maxitoner Colorant at 100% strength. Five minutes minimum mixing on a mechanical shaker is required for complete mixing of color.

Do not use Blend-A-Color colorants.

#### 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: 1 gal (3.78L) and 5 gal (18.9L) containers

Weight per gallon: 12.00 ± 0.2 lb (may vary with color)

#### SAFETY PRECAUTIONS

Refer to the SDS 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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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

2.19

### 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.

#### General 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 good 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 to a nominal profile (2 mils / 50 microns). Remove all weld spatter and round all sharp edges by grinding. 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 products 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/Clean Up\*:** ..... VOC Restricted Areas (≤250 g/L):  
use Acetone R6K9

\*Other areas (>250 g/L): use Acetone R6K9. Or use Xylene R2K4 (below 80°F/27°C), or Aromatic Naphtha R2K5 (above 80°F/27°C). Choose a reducer that is compliant in your area. Confirm compliance with state and local air quality rules before use.

#### Airless Spray

Pressure.....3000 psi  
Hose.....1/4" ID  
Tip .....0.015" – 0.019"  
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 10% by volume

#### Brush

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

#### Roller

Cover .....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	Rusted 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	Pitted & Rusted D St 3	D St 3	SP 3	-

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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
<b>Wet mils</b> (microns)	<b>4.5</b> 112	<b>7.5</b> 188
<b>Dry mils</b> (microns)	<b>3.0</b> 75	<b>5.0</b> 125
<b>~Coverage sq ft/gal (m<sup>2</sup>/L)</b>	<b>217</b> 5.3	<b>361</b> 8.8
<b>Theoretical coverage sq ft/gal (m<sup>2</sup>/L) @ 1 mil / 25 microns dft</b>	<b>1080</b> 26.5	

*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	@ 77°F/25°C 50% RH	@ 100°F/38°C
<b>To touch:</b>	30 minutes	20 minutes	10 minutes
<b>To handle:</b>	15 hours	3-4 hours	2.5 hours
<b>To recoat:</b>	4 hours	1 hour	45 minutes
<b>To cure:</b>	14 days	7 days	4 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 Xylene, R2K4. Clean tools immediately after use with Xylene, R2K4. Follow manufacturer's safety recommendations when using any solvent.

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#### PERFORMANCE TIPS

Stripe coat 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.

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

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

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