

# **INDUSTRIAL ENAMEL**

**B54 SERIES** 

## **PRODUCT INFORMATION**

Revised May 20, 2014	l	RODUCT	NFORMATION		2.15
<b>P</b> RODUCT <b>D</b> ESCRIPTION			Recommended Uses		
<ul> <li>INDUSTRIAL ENAMEL is a medium oil/alkyd all-purpose enamel. Designed for interior and exterior use.</li> <li>Dries fast and allows equipment to be placed back in service quickly</li> <li>Impact and abrasion resistant</li> <li>Chip and flake resistant</li> <li>Chip and flake resistant to dirt</li> <li>Apply down to 40°F (4.5°C)</li> <li>Good exterior durability</li> <li>Excellent application properties</li> </ul>			<ul> <li>Exterior/interior all</li> <li>Safety and pipe m</li> <li>Economical mach</li> <li>Interior wall and control</li> <li>Equipment</li> <li>Fire escapes</li> <li>Safety markings</li> <li>Steel supports</li> <li>Channels</li> <li>Conforms to AWW</li> <li>Acceptable for use</li> </ul>	inery and equipment finis eiling enamel • Fixtures • Window frames • Wood floors • Blowers • Pipe identification	enamel sh • Conveyors • Pumps • Railings • Pipe racks • Bracing itectural applications
<b>P</b> RODUCT CHARACTERISTICS			Perfo	RMANCE CHARACTE	RISTICS
inclu Volume Solids: 43% Weight Solids: 58%	e range of colors ding safety color ± 2%, may vary ± 2%, may vary	s by color	System Tested*: 1 ct. Kem Kromik Univ	en*: SSPC-SP6/NACE 3 rersal Metal Primer @ 3.0-4.0 r mel @ 3.0 mils (75 micror <sup>below</sup>	
VOC (calculated): <450	) g/L; 3.75 lb/gal		Test Name	Test Method	Results
Recommended Spre Wet mils (microns) Dry mils (microns) ~Coverage sq ft/gal (m²/L) Theoretical coverage sq ft/gal	<ul> <li>ading Rate period</li> <li>Minimum</li> <li>4.5 (112)</li> <li>2.0 (50)</li> <li>175 (4.3)</li> <li>690 (16.9)</li> </ul>	Maximum           9.0 (225)           4.0 (100)           350 (8.6)	Abrasion Resistance (topcoat only) Adhesion Corrosion	ASTM D4060, CS17 wheel, 1000 cycles, 1 kg load ASTM D4541 ASTM D5894,	180 mg loss 290 psi Rating 10 per ASTM D610 for
(m²/L) @ 1 mil / 25 microns dft NOTE: Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance.			Weathering	6 cycles, 2016 hours	rusting ; Rating 10 per ASTM D714 for blistering
Drying Schedule @ 4.6 @ 50°F/10°C	mils wet (115 @ 77°F/25°C	<u>microns):</u> @ 110°F/43°C	Direct Impact Resistance	ASTM D2794	68 in. lbs.
To touch: 3 hours	<b>50% RH</b> 1-2 hours	30 minutes	Dry Heat Resistance	ASTM D2485	200°F (93°C)
Tack free:8 hoursTo recoat:12 hours	4-5 hours 8 hours	4 hours 3 hours	Flexibility	ASTM D522, 180° bend, 3/16" mandrel	Passes
<b>To cure:</b> 7 days Drying time is temperature, humi	7 days dity, and film thickr	3 days ness dependent.	Pencil Hardness	ASTM D3363	3B
Shelf Life:       36 months, unopened Store indoors at 40°F (4.5°C) to 100°F (38°C).         Flash Point:       101°F (38°C), PMCC         Reducer:       Not recommended         Clean Up:       Mineral Spirits, R1K4		Provides performand federal specifications DOD-E-115C MIL-E-15090	ce comparable to produc s:	ts formulated to	



SURFACE PREPARATION

CSP 1-3

Clean, smooth, dust free

**B54 SERIES** 

SSPC-SP13/NACE 6 or ICRI No. 310.2R,

2.15

& Marine Coatings **PRODUCT INFORMATION** Revised May 20, 2014 **Recommended Systems** Dry Film Thickness / ct. 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. Mils (Microns) Steel: Kem Kromik Universal Metal 3.0-4.0 (75 - 100)1 ct. Refer to product Application Bulletin for detailed surface preparation Primer information. 2 cts. Industrial Enamel 2.0-4.0 (50-100)Minimum recommended surface preparation: \* Iron & Steel: SSPC-SP2 \* Aluminum: SSPC-SP1 \* Galvanizing: SSPC-SP1 Aluminum: Galvanizing: Concrete & Masonry: **DTM Wash Primer** 0.7-1.3 1 ct. (18-32)2 cts. Industrial Enamel 2.0-4.0 (50-100)Wood, interior: \*Primer required **Concrete Block:** Heavy Duty Block Filler 10.0-18.0 (250-450) 1 ct. 2 cts. Industrial Enamel 2.0-4.0 (50-100)White Metal Near White Metal Commercial Blast Brush-Off Blast **Concrete Floors:** Concrete and Terrazzo Sealer Hand Tool Cleaning 1 ct (reduced as needed) Power Tool Cleaning 2 cts. Industrial Enamel 2.0-4.0 (50-100)**Galvanized Metal:** 1 ct. Galvite HS 3.0-4.5 (75 - 112)Industrial Enamel (50-100)2 cts. 2.0-4.0 Wood, including floors: 2 cts. Industrial Enamel 2.0 - 4.0(50-100)Temperature: Interior Plaster and Poured Concrete Walls: PrepRite Masonry Primer 30 1ct. (75) Relative humidity: (50-100) 2 cts. Industrial Enamel 2.0-4.0 The systems listed above are representative of the product's use, other systems may be appropriate. Packaging: Weight: instructions. DISCLAIMER The information and recommendations set forth in this Product Data Sheet are

**Protective** 

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 Standards Swedish Std. SIS055900 Condition of ISO 8501-1 BS7079:A1 Surface SSPC NACE Sa 3 Sa 2.5 Sa 2 Sa 2 C St 2 C St 2 C St 2 C St 3 D St 3 SP 5 SP 5 SP 10 SP 6 SP 7 SP 2 SP 3 SP 3 Sa 3 Sa 2.5 Sa 2 2 3 4 Sa 1 C St 2 D St 2 C St 3 D St 3 usted itted & Rusted Rusted Pitted & Rusted TINTING Tint with Blend-A-Color Toner or Maxitoner Colorant at 75% strength. Five minutes minimum mixing on a mechanical shaker is required for complete mixing of color. **APPLICATION CONDITIONS** 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 Refer to product Application Bulletin for detailed application information. **O**RDERING INFORMATION 1 gallon (3.78L) and 5 gallon (18.9L) containers 8.82 ± 0.2 lb/gl, 1.06 Kg/L

may vary with 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

#### 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 MER-CHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.





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**B54 SERIES** 

**APPLICATION BULLETIN** 

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### SURFACE PREPARATIONS

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

#### Aluminum

Remove all oil, grease, dirt, oxide, and other foreign material by Solvent Cleaning per SSPC-SP1. Primer required.

#### Galvanized Steel

Galvanized Steel Allow to weather a minimum of six months prior to coating. Solvent Clean per SSPC-SP1 (recommended solvent is VM&P Naphtha). 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 adhe-sion. If adhesion is poor, brush blasting per SSPC-SP7 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. Primer required.

#### Masonry and Concrete

For surface preparation, refer to SSPC-SP13/NACE 6 or ICRI No. 310.2R, CSP 1-3. Surfaces should be thoroughly clean and dry. Con-crete and mortar must be cured at least 28 days @ 75°F. Remove all loose mortar and foreign material. Surface must be free of laitance, concrete dust dust form release acents meinture surface must be concrete dust, dirt, form release agents, moisture curing membranes, loose cement and hardeners. Fill bug holes, air pockets and other voids with a cement patching compound. 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. Laitance must be removed. Primer required.

#### Wood

Surface must be clean, dry, and sound. Paint as soon as possible. No painting should be done immediately after a rain or during foggy weather. Knots and pitch streaks must be scraped, sanded and spot primed. All nail holes or small openings must be properly caulked. Sand to remove any loose or deteriorated surface wood and to obtain a proper surface profile. Self priming.

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 Near White Metal Commercial Blast Brush-Off Blast		Sa 3 Sa 2.5 Sa 2 Sa 1	Sa 3 Sa 2.5 Sa 2 Sa 1	SP 5 SP 10 SP 6 SP 7	1 2 3 4
Hand Tool Cleaning	Rusted Pitted & Rusted	C St 2 D St 2 C St 3	C St 2 D St 2 C St 3	SP 2 SP 2 SP 3	-
Power Tool Cleaning	Rusted Pitted & Rusted	D St 3	D St 3	SP 3	-

#### **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	Not	recommended
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Clean Up ......Mineral Spirits, R1K4

#### **Airless Spray**

Pressure	2500 psi
Hose	1/4" ID
Тір	015"
Filter	

#### **Conventional Spray**

Gun	Binks 95
Fluid Nozzle	66
Air Nozzle	
Atomization Pressure	e50 psi
Fluid Pressure	

#### Brush

Brush.....Natural Bristle

#### Roller

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



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Application Procedures			Performance Tips	
Surface preparation must be completed as indicated.		cated.	Stripe coat all crevices, welds, and sharp angles to prevent early failure in these areas.	
<b>Mixing Instructions:</b> 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:			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 po	
Recommended Spre Wet mils (microns) Dry mils (microns) ~Coverage sq ft/gal (m²/L) Theoretical coverage sq ft/gal (m²/L) @ 1 mil / 25 microns dft NOTE: Brush or roll applicatio achieve maximum film thicknes Drying Schedule @ 4.6 @ 50°F/10°C To touch: 3 hours Tack free: 8 hours To recoat: 12 hours To cure: 7 days Drying time is temperature, humic Application of coating above recommended spreading rate performance.	Minimum 4.5 (112) 2.0 (50) 175 (4.3) 690 (16.9) In may require multi- s and uniformity of mils wet (115 r @ 77°F/25°C 50% RH 1-2 hours 4-5 hours 8 hours 7 days dity, and film thickness	Maximum 9.0 (225) 4.0 (100) 350 (8.6) tiple coats to fappearance. microns): @ 110°F/43°C 30 minutes 4 hours 3 hours 3 days ess dependent.	<ul> <li>In order to avoid blockage of spray equipment, clean equipment before use or before periods of application.</li> <li>In order to avoid blockage of spray equipment, clean equipment before use or before periods of extended downtime with Mineral Spirits, R1K4.</li> <li>Deep tinted colors may exhibit burnishing characteristics.</li> </ul>	
Clean spills and spatters immed Clean tools immediately after of Follow manufacturer's safety rea solvent.	use with Mineral commendations v 	Spirits, R1K4. when using any	Refer to Product Information sheet for additional performance characteristics and properties.           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	

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