



PRO

INDUSTRIAL™

INDUSTRIAL ENAMEL 100

B54Z-200 SERIES

CHARACTERISTICS

Pro Industrial INDUSTRIAL ENAMEL 100 is a high solids, less than 100 g/L VOC, alkyd, gloss topcoat. It is easy to apply by brush, roll, or spray and is intended for interior/exterior use in industrial and commercial applications.

- Chip and flake resistant
- Abrasion resistant
- Exterior and interior applications
- Exhibits good exterior color and gloss retention
- Provides greater flexibility than other alkyds
- HAPS free

Color: most colors

Recommended Spread Rate per coat:

Wet mils:	2.5 - 4.0*
Dry mils:	2.2 - 3.5
Coverage:	400 - 630 sq ft/gal approximate

***Do not exceed 6.0 mils wet film thickness**

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

Drying Schedule 2.6 mils wet @ 50% RH:

@ 50°F @ 77°F @ 120°F

To touch: 7 hrs 5 hrs 1.5 hrs

To handle: 10 hrs 7 hrs 5 hrs

To recoat: 24 hrs 16 hrs 12 hrs

To cure: 10 days 7 days 5 days

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

Finish: Gloss

Flash Point: 101°F, PMCC

Tinting with Blend-A-Color:

Base	oz/gal	Strength
Extra White	0-6	150%
Deep Base	6-18	150%
Ultradeep Base	6-18	150%

B54WZ211 (may vary by color)

VOC (EPA Method #24):

Unreduced <100 g/L; <0.83 lb/gal

Volume Solids: 87 ± 2%

Weight Solids: 92 ± 2%

Weight per Gallon: 10.7 lb/gal ±2%

SPECIFICATIONS

Steel (Acrylic Primer):

- 1 ct. Pro Industrial ProCryl Primer
- 1-2 cts. Pro Industrial Industrial Enamel 100

Steel (Alkyd Primer):

- 1 ct. Kem Kromik Universal Primer
- 1-2 cts. Pro Industrial Industrial Enamel 100

Concrete Block:

- 1 ct. Heavy Duty Block Filler
- 1-2 cts. Pro Industrial Industrial Enamel 100

Aluminum:

- 1 ct. DTM Wash Primer
- 1-2 cts. Pro Industrial Industrial Enamel 100

Galvanized Metal:

- 1 ct. Galvite HS
- 1-2 cts. Pro Industrial Industrial Enamel 100

Interior Plaster and Poured Concrete Walls:

- 1 ct. PrepRite Masonry Primer
- 1-2 cts. Pro Industrial Industrial Enamel 100

Drywall:

- 1 ct. ProGreen 200 Latex Primer
- 1-2 cts. Pro Industrial Industrial Enamel 100

Wood:

- 2 cts. Pro Industrial Industrial Enamel 100

System Tested: (unless otherwise indicated)

Substrate:	Steel
Surface Preparation:	SSPC-SP6
Primer:	1 ct. Pro Industrial ProCryl Primer @ 3.0 mils dft
Finish:	1 ct. Pro Industrial Industrial Enamel 100 @ 3.0 mils dft

Abrasion, topcoat only:

- Method: ASTM D4060, CS17 Wheel, 1000 cycles, 1 Kg load
- Result: 180 mg loss

Flexibility, topcoat only:

- Method: ASTM D522, 180° bend, 1/2" mandrel
- Result: Passes

Adhesion, topcoat only:

- Method: ASTM D4541
- Result: 600 psi

Moisture Condensation Resistance:

- Method: ASTM D4585, 100°F, 500 hours
- Result: Passes

Direct Impact Resistance, topcoat only:

- Method: ASTM D2794
- Result: 60 in. lbs.

Pencil Hardness, topcoat only:

- Method: ASTM D3363
- Result: 4B

Dry Heat Resistance, topcoat only:

- Method: ASTM D2485
- Result: 200°F (discolors)

Salt Fog Resistance:

- Method: ASTM B117, 500 hours
- Result: Passes

Exterior Durability:

- Method: 1 year at 45° South
- Result: Good

Thermal Shock:

- Method: ASTM D2246, 10 cycles
- Result: Passes

113.10 PRO INDUSTRIAL™ INDUSTRIAL ENAMEL 100

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**SHERWIN
WILLIAMS.**

<u>SURFACE PREPARATION</u>	<u>SURFACE PREPARATION</u>	<u>APPLICATION</u>																										
<p>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.</p> <p>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, blast clean all surfaces using a sharp, angular abrasive for optimum surface profile (2 mils). Prime any bare steel within 8 hours or before flash rusting occurs.</p> <p>Aluminum Remove all oil, grease, dirt, oxide and other foreign material by Solvent Cleaning per SSPC-SP1. Primer required.</p> <p>Galvanized Steel 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-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.</p> <p>Masonry and Concrete For surface preparation, refer to SSPC-SP13/NACE 6 or ICRI 03732, CSP 1-3. Surfaces should be thoroughly clean and dry. Concrete 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, dirt, form release agents, moisture curing membranes, loose cement and hardeners. Primer required</p>	<p>Masonry and Concrete (continued) Fill bug holes, air pockets and other voids with ArmorSeal Crack Filler. 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 by etching with a 10% muriatic acid solution and thoroughly neutralized with water. Brick must be allowed to weather for one year prior to surface preparation and painting. Primer required.</p> <p>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.</p> <p>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.</p> <p><u>CLEANUP INFORMATION</u></p> <p>Clean spills and spatters immediately with Mineral Spirits, R1K4. Clean tools immediately after use with Mineral Spirits, R1K4. Follow manufacturer's safety recommendations when using any solvent.</p>	<p>Refer to the MSDS sheet before use</p> <p>Temperature: 50°F minimum 120°F maximum (Air, surface, and material) At least 5°F above dew point</p> <p>Relative humidity: 85% maximum</p> <p>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.</p> <p>Reducer Exempt Solvent 221,R6K221 Clean Up Mineral Spirits, R1K4</p> <p>Airless Spray</p> <table border="0"> <tr><td>Pressure</td><td>3200 psi</td></tr> <tr><td>Hose</td><td>3/8" ID</td></tr> <tr><td>Tip</td><td>.017"-.021"</td></tr> <tr><td>Filter</td><td>60 mesh</td></tr> <tr><td>Reduction</td><td>As needed up to 10% by volume</td></tr> </table> <p>Conventional Spray</p> <table border="0"> <tr><td>Gun</td><td>Binks 95</td></tr> <tr><td>Fluid Nozzle</td><td>66</td></tr> <tr><td>Air Nozzle</td><td>63PB</td></tr> <tr><td>Atomization Pressure</td><td>50 psi</td></tr> <tr><td>Fluid Pressure</td><td>20-25 psi</td></tr> <tr><td>Reduction</td><td>As needed up to 10% by volume</td></tr> </table> <p>Brush Brush Nylon/Polyester or Natural Bristle Reduction not recommend</p> <p>Roller</p> <table border="0"> <tr><td>Cover</td><td>1/4"-woven with solvent resistant core</td></tr> <tr><td>Reduction</td><td>not recommend</td></tr> </table> <p>If specific application equipment is listed above, equivalent equipment may be substituted.</p>	Pressure	3200 psi	Hose	3/8" ID	Tip	.017"-.021"	Filter	60 mesh	Reduction	As needed up to 10% by volume	Gun	Binks 95	Fluid Nozzle	66	Air Nozzle	63PB	Atomization Pressure	50 psi	Fluid Pressure	20-25 psi	Reduction	As needed up to 10% by volume	Cover	1/4"-woven with solvent resistant core	Reduction	not recommend
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