PRO INDUSTRIAL™

113.11

URETHANE ALKYD ENAMEL

B54-150 SERIES

As of 03/01/2013, Complies with:			
OTC	Yes	LEED® 09 CI	No
SCAQMD	No	LEED® 09 NC	No
CARB	No	LEED® 09 CS	No
CARB SCM 2007	No	LEED® 09 S	No
MPI Spec #	No	NGBS	No

CHARACTERISTICS

Pro Industrial Urethane Alkyd Enamel is a high solids, high gloss coating intended for interior/exterior use in industrial environments. It is easy to brush, roll or spray. Provides performance comparable to silicone alkyds.

- Modified with urethane resin for increased exterior durability
- Resistant to chipping and flaking
- Resists premature yellowing
- Abrasion resistant
- Appropriate for interior and exterior applications
- Very good gloss and color retention
- Excellent application characteristics
- Suitable for use in USDA inspected facilities

Color: Most Colors

Recommended Spread Rate per coat:

Wet mils:	3.5 - 7.0
Dry mils:	2.0 - 4.0
Coverage:	231 - 462 sq ft/gal approximate

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

Drying Time @ 4.0 mils wet 50% RH:

	45°F	77°F	120°F
To touch:	4 hrs	2½ hrs	30 min
Tack free:	10 hrs	4 hrs	2 hrs
To recoat:	36 hrs	18 hrs	8 hrs
To cure:	7 days	7 days	5 days

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

Finish: Gloss

Flash Point: 103°F, PMCC

Shelf Life: 36 months, unopened
Store indoors at 40°F to 100°F.

Tinting with Blend-A-Color or MaxiToner:

Base	oz/gal	Strength
Extra White	0-6	100%
Ultradeep	4-12	100%

B54W00151 (may vary by color)

VOC (EPA Method 24): Unreduced: <330g/L; <2.75 lb/gal

Volume Solids: 58% ± 2%

Weight Solids: 72% ± 2%

Weight per Gallon: 9.8 lb

RECOMMENDED SYSTEMS

Steel (alkyd primer):
1 ct. Kem Bond HS Primer
1-2 cts. Pro Industrial Urethane Alkyd Enamel

Aluminum:
1 ct. DTM Wash Primer
1-2 cts. Pro Industrial Urethane Alkyd Enamel

Galvanized Metal:
1 ct. Galvite HS
1-2 cts. Pro Industrial Urethane Alkyd Enamel

Concrete Block:
1 ct. Heavy Duty Block Filler
1-2 cts. Pro Industrial Urethane Alkyd Enamel

Interior Plaster and Poured Concrete:
1 ct. Loxon Masonry Primer
1-2 cts. Pro Industrial Urethane Alkyd Enamel

Drywall:
1 ct. ProMar 200 Latex Primer
1-2 cts. Pro Industrial Urethane Alkyd Enamel

Wood Floors (Foot Traffic):
1-2 cts. Pro Industrial Urethane Alkyd Enamel

System Tested: (unless otherwise indicated)
Substrate: Steel
Surface Preparation: SSPC-SP10
1 ct. Kem Bond HS Primer
1 ct. Pro Industrial Urethane Alkyd Enamel

Abrasion
Method: ASTM D4060, C517 wheel, 1000 cycles,1 kg load
Result: 175 mg loss

Adhesion
Method: ASTM D4541
Result: 392 psi

Direct Impact Resistance
Method: ASTM D2794
Result: 60 in. lbs.

Dry Heat Resistance
Method: ASTM D2485
Result: 200°F (93°C) (discolors)

Flexibility
Method: ASTM D522, 180° bend, 1/4" mandrel
Result: Passes

Humidity Resistance
Method: ASTM D4548, 500 hours
Result: Rating 10 per ASTM D610 for Rusting; Rating 10 per ASTM D714 for Blistering

Pencil Hardness
Method: ASTM D3363
Result: B

Salt Fog Resistance
Method: ASTM B117, 500 hours
Result: Rating 10 per ASTM D610 for Rusting; Rating 10 per ASTM D714 for Blistering

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SURFACE PREPARATION

WARNING! Removal of old paint by sanding, scraping or other means may generate dust or fumes that contain lead. Exposure to lead dust or fumes may cause brain damage or other adverse health effects, especially in children or pregnant women. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted respirator (NIOSH approved) and proper containment and cleanup. For more information, call the National Lead Information Center at 1-800-424-LEAD (in US) or contact your local health authority.

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
Remove all oil and grease from surface by Solvent Cleaning per SSPC-SP1. Minimum surface preparation is Hand Tool Clean per SSPC-SP2. 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
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. Primer required. Rusty galvanizing requires a minimum of Hand Tool Cleaning per SSPC-SP2, prime the area the same day as cleaned.

Masonry and Concrete
For surface preparation, refer to SSPC-SP13/NACE 6 or ICRI No. 310.2, CSP 1-3. Surfaces should be thoroughly clean and dry. Concrete and mortar must be cured at least 28 days @ 75°F (24°C). 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. 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. Brick must be allowed to weather for one year prior to surface preparation and painting. 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, 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

Refer to the MSDS before using
Temperature: 40°F minimum
120°F maximum
(air, surface, and material)
At least 5°F above dew point
Relative humidity: 85% maximum

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.

Reducer/Clean Up
Mineral Spirits, R1K4* or Xylene, R2K4

Airless Spray
Pressure ..... 1800 psi minimum
Hose ..... 3/8" ID
Tip ..... .017" - .019"
Filter ..... 60 - 100 mesh
Reduction..... As needed up to 10% by volume

Conventional Spray
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

Brush
Brush.....Nylon/polyester or natural bristle
Reduction..... As needed up to 10% by volume

Roller
Cover
1/4 - 3/8" lambswool or synthetic cover
Reduction..... As needed up to 10% by volume

* To maintain VOC compliance of 340 g/l, only a 2% reduction of Mineral Spirits, R1K4 is allowed.

CLEANUP INFORMATION

Clean spills, spatters, and tools immediately after use with mineral spirits. Follow manufacturer's safety recommendations when using mineral spirits.

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 MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.