CHARACTERISTICS

Pro Industrial Urethane Alkyd Enamel is a 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 compared to conventional alkyds
- Abrasion resistance
- Appropriate for interior and exterior applications
- 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

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

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

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

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

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

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

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

Drywall:
1-2 pts. Pro Industrial Urethane Alkyd

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

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: 75°+@60° Gloss
Flash Point: 103°F, TCC
Shell Life: 36 months, unopened extra white & ultradeep. 12 months package colors. 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 (less exempt solvents):
Unreduced: 326 g/L - 2.72 lb/gal
As per 40 CFR 59.406 and 50R/2009-264, s.12

Volume Solids: 58% ± 2%
Weight Solids: 72% ± 2%
Weight per Gallon: 9.75 lb

RECOMMENDED SYSTEMS

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As of 05/12/2017, Complies with:
OTC Yes  LEED ® 09  NC CI No
OTC Phase II No  LEED ® 09 CS No
SCAQMD No  LEED ® 09 H No
CARB No  LEED ® volatile Emmissions No
CARB SCM 2007 No  LEED ® v4 VOC No
Canada Yes

Abrasive Resistance:
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

05/2017
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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** - 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 (Untreated)** - Remove all oil, grease, dirt, oxide and other foreign material by Solvent Cleaning per SSPC-SP1. Primer required.

**Galvanized Steel (Untreated)** - 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-SP16 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. 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** - 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. Recognize that any surface preparation short of total removal of the old coating may compromise the service length of the system.

**APPLICATION PROCEDURES**

Apply paint at the recommended film thickness and spreading rate as indicated on front page. Application of coating below minimum recommended spreading rate will adversely affect coating performance.

**SAFETY PRECAUTIONS**

Refer to the SDS sheets before use. FOR PROFESSIONAL USE ONLY.

**DANGER:** Rags, steel wool, other waste soaked with this product, and sanding residue may spontaneously catch fire if improperly discarded. Immediately place rags, steel wool, other waste soaked with this product, and sanding residue in a sealed, water-filled, metal container. Dispose of in accordance with local fire regulations.

**APPLICATION**

Refer to the SDS before using

**Temperature:**

- 40°F minimum
- 120°F maximum

**Relative humidity:**

- At least 5°F above dew point
- 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..............................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 & tools with compliant cleanup solvent. After cleaning, flush spray equipment with compliant cleanup solvent to prevent rusting of the equipment. Follow manufacturer's safety recommendations when using solvents.

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PRO INDUSTRIAL™
URETHANE ALKYD ENAMEL

The information and recommendations set forth in this Product Data Sheet are based upon tests conducted by the manufacturer 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 or visit www.paintdocs.com to obtain the most current version of the PDS and/or an SDS.