



**Cote-All**  
**CORROSION-RESISTANT ENAMEL**  
**POLYURETHANE MODIFIED**  
**ALKYD 91 SERIES**

**PRODUCT DATA**

**GENERIC TYPE:** Soya Alkyd, Urethane Modified

**DESCRIPTION:** A high quality lead free interior/exterior gloss alkyd enamel that is modified with polyurethane resin for increased durability. It provides better gloss, color retention, and durability than conventional alkyds when exposed to light chemical environments. McCormick performance alternate to Federal Specifications: TT-E-487, TT-P-489J, TT-E-505A, and TT-E-506K.

**Features:**

- Gloss Finish
- Oil Resistant
- Non-Chalking
- High Hiding

**RECOMMENDED USES:** For use on properly prepared metal surfaces as found on machinery and equipment, cabinets, furniture, piping, structural steel, and farm equipment.

**COMPATIBLE COATINGS:** May be applied over properly prepared alkyd or acrylic finishes. See application instructions for proper substrate primer.

**Primers:**

- McCormick Underlok Interior/Exterior Acrylic Latex Multi-Purpose Primer 06452
- McCormick State House Exterior Acrylic Latex Primer 06438
- McCormick 1<sup>st</sup> Step Interior/Exterior White Metal Rust Inhibitive Primer 06453

**PHYSICAL CHARACTERISTICS**

**Colors:** Full Range

**Vehicle Type:** Soya Alkyd, Urethane Modified

**VOC/VOS:** Less than 400 g/L; 3.5 lb/gal

**Volume Solids (Avg.):** 53.1 ± 2%

**Weight Solids (Avg.):** 63.5 ± 2%

**Viscosity:** 75-85 K

**Suggested Film Thickness:**

**Brush and Roll:** 3.2 mils wet, 1.5 mils dry

**Spray:** 6 mils wet, 3 mils dry

**Theoretical Coverage per Gallon:**

500 sq ft @ 1.5 mils DFT

**Gloss Level:** 80-90 units @ 60°

**Sheen:** N/A

**Drying Time @ 77°F & 50% R.H.:**

**To Touch:** 4 hours

**Recoat:** 24 hours. Allow additional drying time during humid or cooler weather.

**Min. Surface/Air Temperature at Application:** 40°F

**Max Surface/Air Temperature at Application:** 125°F

**Flash Point:** 105°F

**Heat Resistance:** 250°F Intermittent

**Application:** Brush, Roller, or Spray

**Thinning:**

**Brush and Roller:** Not Recommended

**Spray:** Up to One Pint of Mineral Spirits per Gallon

**Clean Up:** Mineral Spirits

**Packaging:** Quart, Gallon and Five Gallon

**Weight per Gallon:** 9.2 – 9.4 lb/gal

**NOT RECOMMENDED:**

Do not use as a house and trim paint, or on floors subject to vehicular use. This product is not intended for immersion service, situations characterized by high heat or presence of corrosive chemicals.

GREEN WISE®	LEED	SCAQMD	OTC
NO	NO	NO	YES

### APPLICATION INSTRUCTIONS

For the following surfaces, prime as indicated and finish with 2 coats of McCormick Cote-All Corrosion-Resistant Enamel Polyurethane Modified Alkyd 33 Series.

### SURFACE PREPARATION

**Previously Painted Surfaces:** All surfaces must be internally dry, thoroughly clean, and free from dirt, grease, loose and peeling paint, excessive chalk, mildew and other surface contaminants that might impair adhesion. Remove rust by wire brushing, steel wool, sandpaper, or brush off sand blast. Clean by wiping surface with clean rags wet with mineral spirits. Dull glossy areas by sanding. Any exposed substrates should be spot primed with appropriate McCormick primer as for unpainted surfaces listed below.

**Unpainted Galvanized Metal:** Solvent clean surfaces to remove oils, waxes, etc. Prime with McCormick Underlok Interior/Exterior Acrylic Latex Multi-Purpose Primer 06452 or McCormick State House Exterior Acrylic Latex Primer 06438.

**Unpainted Ferrous Metal:** Remove all rust, mill scale, etc. Prime with McCormick 1<sup>ST</sup> Step Interior/Exterior White Metal Rust Inhibitive Primer 06453.

### APPLICATION

Always stir well before use. Additives for ease of application or to promote adhesion are not recommended. Do not apply if material, substrate, or ambient temperature is below 40°F or above 110°F. Relative humidity should be below 90%. Apply by brush, roller, or spray. For best brush application results, use a quality synthetic filament brush. For roller application, use a ¼" to ⅜" nap cover. For spray application, thin with mineral spirits, up to one pint per gallon if necessary.

### APPLICATION EQUIPMENT

- Apply by brush, roller, or spray.
- Manufacturers listed below are a guide. Others may be used. Changes in pressure and tip size may be required to achieve proper application.

### Airless Spray:

Pump: Graco / Titan

High Pressure Filter: 60 Mesh

Fluid Hose: ¼" x 50'

Tips: 0.015" - 0.021"

Minimum pressure to avoid fingering: 2000 psi

### CAUTIONS --- Lead Hazard: WARNING!

If you scrape, sand, or remove old paint, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH-approved respirator to control lead exposure. Clean up carefully with a HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by contacting the National Lead Information Hotline at 1-800-424-LEAD or go on to [www.epa.gov/lead](http://www.epa.gov/lead).

### CAUTIONS: COMBUSTIBLE LIQUID AND VAPOR

**CONTAINS MINERAL SPIRITS:** Vapor harmful. May affect the brain or nervous system causing dizziness, headache or nausea, cause eye, skin, nose and throat irritation.

### CAUTION - USE ONLY WITH ADEQUATE VENTILATION.

Wear appropriate respiratory protection when sanding or spraying this product. To avoid breathing vapors or spray mist, open windows and doors or use other means to ensure fresh air entry during application and drying. If you experience eye watering, headaches or dizziness, wear respiratory protection (NIOSH/MSHA TC23C or equivalent) or leave the area. Avoid contact with eyes and skin.

**FIRST AID:** If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical assistance immediately. In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get medical attention; for skin, wash thoroughly with soap and water. If swallowed, get medical attention immediately.

**CONTAINER LABELING COMPLIES WITH APPLICABLE STATE RIGHT TO KNOW ACTS.** For additional safety and health information, please refer to the Material Safety Data Sheet (MSDS).

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MANUFACTURED BY:

**McCormick Paints**  
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**PRODUCT DATA SHEET**