

### TECHNICAL DATA

#### Product Description

A premium quality, high gloss, alkyd enamel formulated for use in mild to moderate industrial environments. CoteAll is designed for new construction and maintenance applications where good gloss, color retention, and outstanding durability are desired.

#### Intended Uses

**Apply to:**

- Interior/exterior surfaces
- Various industrial environments
- Wide variety of primers
- Ferrous metal
- Maintenance applications
- Touch up or repairs

**Protects:**

- Tanks
- Ag-Chem applications
- Primed surfaces
- Equipment
- Machinery

The above are general recommendations and not intended to limit the use of CoteAll. Test areas are always recommended to confirm results.  
NOT INTENDED FOR IMMERSION SERVICE.

#### Physical Properties

<b>Resin Type</b>	Medium Oil Alkyd		
<b>Finishes/Sheens</b>	High Gloss, 85+ @ 60°	Satin, 25–35 @ 60°	Low Sheen, 0–5 @ 60°
<b>Bases</b>	White Base AZ-1410, Midtone Base AZ-1411, Deep Base AZ-1412, Neutral Base AZ-0413		
<b>Colors</b>	High Gloss	Available in 20 ready mix colors including safety and implement colors.	
	Satin	Bronze AZ-8417, Black AZ-9401	
	Low Sheen	White AZ-1409, Black AZ-9403	
<b>Solids by Weight</b>	62%		
<b>Solids by Volume</b>	42%		
<b>Theoretical Coverage*</b>	677 ft <sup>2</sup> /gal @ 1 mil		
<b>Dry Film Thickness / Coat</b>	1.5–2.0 mils (37.5–50 microns)		
<b>Wet Film to Achieve DFT</b>	3.6–4.8 mils (90–120 microns)		
<b>Coverage at DFT*</b>	338–451 ft <sup>2</sup> /gal		
<b>VOCs</b>	3.75 lbs./gal (450 grams/liter)		
<b>Reduction Solvents</b>	DO NOT THIN		
<b>Clean-up Solvents</b>	Diamond Vogel N-1110 Mineral Spirits or N-3023 Xylol		
<b>Drying Time**</b>	<b>Set to Touch:</b> 4–6 hours at 70°F (21°C) and 50% Relative Humidity <b>Recoat:</b> 8 hours at 70°F (21°C) and 50% Relative Humidity <b>Maximum Recoat Time:</b> 30 days at 70°F (21°C) and 50% Relative Humidity		
ASTM D1640-83 reapproved 1989			

\* Coverage rates are estimates based on the products volume solids and make no allowance for material loss during application. Actual spread rates may vary dependent on applicator experience, surface porosity and texture.

\*\* Dry times vary with surface temperature, air movement, humidity and film thickness.

#### Performance Characteristics

CoteAll meets or exceeds the following performance testing criteria:

Test Name	Test Method	Results
Adhesion Testing	ASTM D 3359 Cross Hatch	Not less than 5B average
Heat Resistance	ASTM D 2485 High Temperature Service	Passes at 250°F (121°C)
Pencil Hardness	ASTM D 3363	2B
Cyclic Weathering	ASTM D-5894 840 hours	Face blisters: none, Face rust 9, Scribe creepage <1 mm
Corrosion Resistance	ASTM B 117-94 Salt Spray (Fog) Test - 500 hours	Face blisters: none, Face rust 10, Scribe creepage <2 mm

## TECHNICAL DATA

### Qualifications

Performance criteria meet or exceed Master Painters Institute (MPI) #48 and #96 approval standards.

Performance criteria for CoteAll Aluminum (AZ-2401) meet or exceed Master Painters Institute (MPI) #1 approval standards.

### Surface Preparation

All surfaces must be clean, sound, dry and free of all dirt, dust, wax, oil, grease, chalk and any other contamination that would interfere with new coating adhesion. Bare surfaces must be properly prepared and primed prior to application of this product. See "System Selector" for appropriate primer to use depending on the substrate.

**Masonry Surfaces - Poured Concrete, Concrete Block\*:** New concrete and mortar should cure for a *minimum* of 30 days at 72°F (22°C) prior to coating application. Level all surface projections and mortar spatters by stoning. Rake mortar joints clean and remove all soluble salts.

**Wood Surfaces:** Sand smooth any exposed wood surfaces. Patch nail holes and any imperfections with wood filler or putty and sand smooth. Remove sanding dust.

**New Ferrous Metal & Previously Painted Surfaces:** Power or hand washing is recommended to remove contamination. If oil or grease is present, use of a cleaner/degreaser is required. All cleaning residue must be completely rinsed from the surface. Allow to dry. Remove all loose coatings, rust and corrosion by scraping, sanding or other abrading method as per SSPC-SP-2, Hand Tool Cleaning and SSPC-SP-3, Power Tool Cleaning. For new steel and complete removal of the old coating, abrasive blast according to SSPC-SP-6, Commercial Blast Cleaning. Use proper abrasive to achieve a 1.5 to 2.0 mil profile as per SSPC-SP-6, Commercial Blast Cleaning. Blasted surfaces must be primed before flash rusting occurs.

**Aluminum Surfaces:** New aluminum must be solvent wiped to remove contamination, then use an etching solution or abrade the surface by sanding. Aged aluminum should be power or hand washed with detergent and rinse thoroughly. The surface must be dull and slightly rough: use an etching solution or sand if needed.

**New Galvanized Metal Surfaces\*:** Solvent wipe to remove surface contamination, then use an etching solution or abrade the surface by sanding.

**Weathered Galvanized Surfaces\*:** Power or hand wash with detergent and rinse thoroughly. The surface must be dull and slightly rough; use an etching solution or sand if needed.

**Mildew:** Remove by using a solution of one part household bleach and three parts water. Apply to mildewed area and scrub. Allow solution to remain on the surface for 3 to 5 minutes and then rinse completely and allow to dry before coating application.

**\*Alkyd coatings are not recommended for direct application to unprimed masonry surfaces or unprimed galvanized surfaces.**

### Application

Stir material thoroughly prior to application. Intermix tinted containers to ensure color uniformity of all material. Minimum surface and air temperature required for application is 40°F (4°C) and at least 5°F (3°C) above the dew point. Curing is affected by temperature, humidity and air movement. The minimums must be maintained for at least eight (8) hours in order to achieve proper film formation. Application at elevated temperatures, wind conditions, and/or low humidity may require special application procedures to achieve proper film formation.

**Brush or Roller:** 2 coats may be required to achieve proper dry film thickness when using brush or roller application. Apply product in full even coats. Maintain a wet edge. Allow the product to dry between coats (see the drying times chart for recoat period). A good quality natural bristle brush will make application easier. Select a roller cover suited for the texture of the surface to be coated.

**Airless Spray:** Flush airless lines with Diamond Vogel N-3023 Xylo. Equipment must be clean prior to start. Apply a wet coat in even, parallel passes with 50% overlap to avoid bare areas and pinholes. If required, crosshatch spray at right angles. Allow the product to dry between coats.

Tip Orifice	Atomizing Pressure	Material Hose ID	Manifold Filter
0.013" to 0.015"	2500–3000 PSI	1/4"	60 mesh

### Packaging

### Shipping Weight

Product	1 Gallon	5 Gallon	Product	1 Gallon	5 Gallon
CoteAll Enamel	1 Gallon Pail	5 Gallon Pail	CoteAll Enamel	10.68 lbs. (4.84 kg)	52.77 lbs. (23.94 kg)

### Storage

Two years from date of manufacture when maintained in protected area at a temperature of 40° to 100°F (4° to 38°C). Subject to inspection thereafter.

**TECHNICAL DATA****Safety Precautions**

\*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 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 log on to [www.epa.gov/lead](http://www.epa.gov/lead).

Paint Products contain chemical ingredients, which are considered hazardous. Prior to use, read container label warnings and the current Safety Data Sheet for important health and safety information. Ensure these instructions are practiced during product application and cure. **Keep out of the reach of children.**

**Safety Data**

"Safety Data Sheets" are available from your Diamond Vogel representative or the Diamond Vogel website at [www.diamondvogel.com](http://www.diamondvogel.com). Prior to use of this product, obtain and review the Safety Data Sheet for health and safety information. Read and observe all precautionary notices on container labels. **NOT INTENDED FOR RESIDENTIAL USE.**

**Limited Warranty**

The technical data and suggestions for use contained in this document are true and correct to the best of our knowledge at the date of issuance. The statements of this document do not constitute a warranty, expressed or implied, as to the performance of these products. Since Diamond Vogel does not control the application of its products, or the condition of the surfaces to which they are applied, Diamond Vogel's liability will under no circumstances exceed replacement of the product. **All technical information is subject to change without notice.**

**Additional Information**

Cautions and Warnings information is located on the back panel of each product label.

For current information regarding VOC regulations for specific geographical regions, please contact Technical Service at Diamond Vogel Corporate Headquarters, (Contact information is located at the bottom of the page).