

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 as well as outstanding durability are desired. CoteAll is VOC compliant, as well as lead and chromate free.

Intended Uses

Apply to:

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

Protects:

- 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

Resin Type	Medium Oil Alkyd		
Finishes/Sheens	High Gloss, 85+ @ 60°	Satin, 25–35 @ 60°	Low Sheen, 0–5 @ 60°
Bases	White Base AZ-1410, Midtone Base AZ-1411, Deep Base AZ-1412, Neutral Base AZ-0413		
Colors	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	
Solids by Weight	62%		
Solids by Volume	42%		
Theoretical Coverage*	677 ft ² /gal @ 1 mil		
Dry Film Thickness / Coat	2.0–3.0 mils (50–75 microns)		
Wet Film to Achieve DFT	4.75–7.0 mils (117.75–175 microns)		
Coverage at DFT*	225–338 ft ² /gal		
VOCs	3.75 lbs./gal (450 grams/liter)		
Reduction Solvents	DO NOT THIN		
Clean-up Solvents	Diamond Vogel N-1110 Mineral Spirits or N-3023 Xylol		
Drying Time**	Set to Touch: 4–6 hours at 70°F (21°C) and 50% Relative Humidity Recoat: 8 hours at 70°F (21°C) and 50% Relative Humidity Maximum Recoat Time: 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

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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 Xylol. 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.

Paint Products contain chemical ingredients, which are considered hazardous. Prior to use, read container label warnings and the current Material 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

"Material Safety Data Sheets" are available from your Diamond Vogel representative or the Diamond Vogel website at www.diamondvogel.com. Prior to use of this product, obtain and review the Material 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 Paints does not control the application of its products, or the condition of the surfaces to which they are applied, Diamond Vogel Paint's liability will under no circumstances exceed replacement of the product. **All technical information is subject to change without notice.**

Cautions & Warnings**WARNING!**

COMBUSTIBLE LIQUID AND VAPOR.

CAUSES EYE IRRITATION.

Contains: Mineral Spirits. VAPOR HARMFUL. MAY AFFECT THE BRAIN OR NERVOUS SYSTEM CAUSING DIZZINESS, HEADACHE OR NAUSEA. CAUSES NOSE, THROAT AND SKIN IRRITATION. NOTICE: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Keep away from heat, sparks and flame. VAPORS MAY CAUSE FLASH FIRE. Do not smoke. Extinguish all flames and pilot lights, and turn off stoves, heaters, electric motors and other sources of ignition during use and until all vapors are gone. Prevent build-up of vapors by opening all windows and doors to achieve cross-ventilation. **Use only with adequate ventilation.** Do not breathe vapors or spray mist. Ensure fresh air entry during application and drying. If you experience eye watering, headache or dizziness or if air monitoring demonstrates vapor/mist levels are above applicable limits, wear an appropriate, properly fitted respirator (NIOSH/MSHA-approved) during and after application. Follow respirator manufacturer's directions for respirator use. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. **KEEP OUT OF REACH OF CHILDREN.** **First Aid:** In case of eye contact, flush immediately with plenty of water for at least 15 minutes and call poison control center, hospital emergency room, or physician immediately; for skin, wash thoroughly with soap and water. If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, call poison control center, hospital emergency room, or physician immediately. If swallowed, do not induce vomiting. Call poison control center, hospital emergency room, or physician immediately. If spilled, contain spilled material and remove with inert absorbent. Dispose of contaminated absorbent, container and unused contents in accordance with local, state and federal regulations.