

### TECHNICAL DATA

#### Product Description

CoteAll Primer is an interior and exterior, rust inhibitive, medium oil, alkyd primer formulated for use in mild to moderate industrial environments. It may also be used as a barrier coat over most tightly adhering coatings and tightly adhering rusted surfaces. Can be topcoated with a wide variety of topcoats.

#### Intended Uses

- |                              |                       |                               |             |
|------------------------------|-----------------------|-------------------------------|-------------|
| <b>Apply to:</b>             |                       | <b>Protects:</b>              |             |
| • Interior/exterior surfaces | • Ferrous metal       | • Tanks                       | • Equipment |
| • Industrial environments    | • Maintenance primer  | • Ag-Chem applications        | • Machinery |
| • Shop coat                  | • Touch up or repairs | • Structural or support steel |             |

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

#### Physical Properties

Resin Type	Phenolic Alkyd
Finish/Sheen	Low Sheen, 5–10 @ 60°
Colors	Gray AZ-0400, White AZ-1400, Red AZ-5400
Solids by Weight	67%
Solids by Volume	42%
Theoretical Coverage	680 ft <sup>2</sup> /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*	226–340 ft <sup>2</sup> /gal
VOCs	3.33 lbs./gal (400 grams/liter)
Reduction Solvents	DO NOT THIN
Clean-up Solvents	Diamond Vogel N-1110 Mineral Spirits or N-3023 Xylol
Drying Time**	<b>Set to Touch:</b> 3 hours at 70°F (21°C) and 50% Relative Humidity <b>Recoat:</b> 8 hours 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 Primer meets or exceeds the following performance testing criteria:

Test Name	Test Method	Results
Abrasion Resistance	ASTM D 4060, CS-17 Wheel 1kg Load, 1000 Cycles	0.2606 wear index
Adhesion Testing	ASTM D 4541 Elcometer Pull Test	>1000 lbs./sq. in.
Adhesion Testing	ASTM D 3359 Cross Hatch	Not less than 5B average
Impact Resistance	ASTM 2794	Direct 30 in./lbs. Reverse <5 in./lbs.
Heat Resistance	ASTM D 2485 High Temperature Service	Passes at 250°F (121°C)
Pencil Hardness	ASTM D 3363	3B
Cyclic Weathering	ASTM D-5894 - 840 hours	Face blisters few #8, face rust rated 8, <2 mm scribe creepage
Corrosion Resistance	ASTM B 117-94 Salt Spray (Fog) Test - 168 hours	Face blisters few #8, face rust rated 8, <1 mm scribe creepage

**TECHNICAL DATA**
**Qualifications**

Performance criteria meet or exceed Master Painters Institute (MPI) #23 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 prior to application of this product. See "System Selector" for appropriate primer to use depending on the substrate.

**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.

**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, then rinse completely and allow to dry before coating application.

**Application**

Stir material thoroughly prior to application. Intermix 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 Primer	1 Gallon Pail	5 Gallon Pail	CoteAll Primer	12.26 lbs. (5.56 kg)	59.66 lbs. (27.06 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.

**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.**

**TECHNICAL DATA****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).