



UNIVERSAL METAL PRIMER V131

Features

- High solids content
- Quick drying; can be recoated in 4 hours
- Ideal for use in metal shops and industrial maintenance
- Can be top coated with strong, solvent-based coatings
- Can be applied with electrostatic sprayers (once the product is polarized)
- Suitable For Use In USDA Inspected Facilities

General Description

Universal Metal Primer is a high-performance, one-component, quick-dry, rust-inhibitive metal primer, formulated for use on ferrous metal substrates. The phenolic alkyd resin formulation allows for a wide variety of intermediate and finish coats. The quick dry and recoat times allow for fast turn-around of production work. The barrier protection that this product provides, as well as the rust inhibitive pigmentation, leaves a film that prevents corrosion for many years. Additionally, this product may be used as a tie coat over existing coatings that will be finished with a high performance coating. It provides corrosion resistance for both interior and exterior steel surfaces.

Recommended For

Ferrous Metal such as Steel & Iron. Corotech® Universal Metal Primer is designed for shop application in the General Metal Finishing / Fabrication market as well as the Industrial Maintenance market.

Limitations

- Not recommended for non-ferrous metals such as galvanized, aluminum or for use in immersion service
- Do not apply if material, substrate or ambient temperature is below 50 °F (10 °C)
- Relative humidity should be below 90%. Do not apply if within 5 degrees of dew point or if rain is expected within 12 hours of application

Product Information

Colors — Standard:		Technical Data◇		White
White (01), Red (20), Gray (70)		Vehicle Type		Phenolic Alkyd
— Tint Bases:		Pigment Type		Titanium Dioxide
Do not tint.		Volume Solids		60.0 ± 1.0%
— Special Colors:		Coverage per Gallon at Recommended Film Thickness		450 – 500 Sq. Ft.
Contact your retailer.		Recommended Film Thickness		– Wet 3.2 – 3.6 mils – Dry 1.9 – 2.1 mils
Certification & Qualifications :		Depending on surface texture and porosity.		
<p>The products supported by this data sheet contain a maximum of 340 grams per liter VOC / VOS (2.83 lbs. /gal.) excluding water and exempt solvents</p> <p>Meets Federal Specifications TT-P-664, MIL-P-11414, MIL-P-15930 & MIL-P-52977</p> <p>Meets the performance requirements of SSPC Paint # 25</p>		Dry Time @ 77 °F (25 °C) @ 50% RH		– To Touch 1 Hour – To Recoat 4 Hours – Cure Time 7 Days
		High humidity and cool temperatures will result in longer dry, recoat and service times.		
		Dries By		Oxidation
		Viscosity		80 – 85 KU
		Flash Point		81 °F (TT-P-141, Method 4293)
		Gloss/Sheen		0 – 3 @ 60°
		Surface Temperature at Application		– Min. 50 °F – Max. 90 °F
		Thin With		Not Recommended
		Clean Up Thinner		Corotech® V703 or Xylene
		Weight Per Gallon		13.8 lbs.
		Storage Temperature		– Min. 45 °F – Max. 95 °F
		Volatile Organic Compounds (VOC) 333 Grams/Liter 2.78 Lbs./Gallon		

◇ Reported values are for White. Contact retailer for values of other bases or colors.

Surface Preparation

All surfaces must be sound, dry, clean and free of oil, grease, dirt, mildew, mill scale, form release agents, curing compounds, loose and flaking paint and other surface contaminants.

NEW SURFACES: Steel: For best results, abrasive blast to a commercial blast (SSPC-SP 6). For mild conditions, a hand or power tool cleaning (SSPC-SP 2) may be satisfactory, but performance is dependent upon the degree of surface preparation.

Previously Painted Surfaces: Wash and rinse any areas that may have oil or grease residue. Dull glossy surfaces by lightly sanding. Remove sanding dust. Remove loose paint. All areas that are rusting, blistering, cracking or peeling must be cleaned to bare metal. If more than 25% of the surface is involved, sandblast the entire surface to a commercial blast and prime. If less than 25% of the surface is involved, clean soiled areas and spot prime.

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 Informational Hotline at 1-800-424-LEAD or log on to www.epa.gov/lead.

Application

Mix the product thoroughly before application. The use of a drill mixer at low speed will best accomplish this.

Airless Spray: Tip range between .013 and .017. Total fluid output pressure at tip should not be less than 2200 psi.

Air Spray (Pressure Pot): DeVilbiss MBC or JGA gun, with 704 or 765 air cap and Fluid Tip E.

Can be brushed using a natural bristle brush or rolled using a 3/8" lambs wool or 1/4" - 1/2" synthetic roller cover. Roll in one direction, rewet, then cross roll.

NOTE: Do not allow material to remain in hoses, gun or spray equipment. Thoroughly flush all equipment with recommended thinner. No reduction is necessary. Do not apply if material, substrate or ambient temperature is below 45° F (7.2° C). Relative humidity should be below 90%. Do not apply if within 5 degrees of dew point or if rain is expected within 12 hours of application.

TEST DATA		CHEMICAL RESISTANCE GUIDE (NON-IMMERSION)	
		Fresh Water	See Finish Coat Data Sheets for Resistance Information
Flexibility (ASTM D1737)	Pass ¼" Mandrel	Salt Water	
Dry Heat Resistance	250° F	Acids	
Wet Heat Resistance	150° F	Alkalis	
Adhesion (ASTM D3359)	Pass 5B	Solvents	
Salt Spray (ASTM B117) (1 Coat w/2 Topcoats; 1000 Hours)	Rust Breakthrough: 10 Rust Area: 0.01%	Fuel	
		Acidic Salt Solutions	
		Alkaline Salt Solutions	
		Neutral Salt Solutions	
SYSTEMS RECOMMENDATIONS			
COMPATIBLE FINISHES			
V200 Line, V201 Line, V220 Line, V230 Line, V231 Line, V300 Line, V330 Line, V400 Line, V410, V440 Line, V500, V510, V515, V520 and Other Acrylics & Alkyds			
COMPATIBLE INTERMEDIATES			
V160 Line			

Clean Up

Clean with Corotech® V703 or Xylene.

Environmental Health & Safety Information

Danger

May cause an allergic skin reaction

May cause cancer

Causes damage to organs through prolonged or repeated exposure

May be fatal if swallowed and enters airways

Flammable liquid and vapor

Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves. Do not breathe dust/fume/mist/vapors/spray. Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Keep away from heat/sparks/open flames/hot surfaces, no smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

Response: If exposed or concerned get medical attention. If skin irritation or rash occurs get medical attention. Wash contaminated clothing before reuse. If on skin (or hair) take off immediately all contaminated clothing. Rinse skin with water. If swallowed immediately call a POISON CENTER or physician. Do NOT induce vomiting. In case of fire use CO2, dry chemical, or foam for extinction.

Storage: Store locked up. Store in a well-ventilated place. Keep cool.

Disposal: Dispose of contents/container to an approved waste disposal plant.

DANGER - Rags, steel wool or waste soaked with this product may spontaneously catch fire if improperly discarded. Immediately after use, place rags, steel wool or waste in a sealed water-filled metal container.



WARNING Cancer and Reproductive Harm—

www.P65warnings.ca.gov

This document represents hazards of the product referenced above. Refer to the individual Safety Data Sheet for hazards of the specific product you will be using.

FOR PROFESSIONAL USE ONLY

Refer to Safety Data Sheet for additional health and safety information.