



# QUICK DRY ALKYD ENAMEL SEMI-GLOSS V231

## Features

- Fast 30 minute dry
- No orange peel
- Airless or HVLP systems
- Hard scratch- and impact-resistant coating
- For all ferrous metal surfaces
- Compliant for field application in OTC VOC region

## Recommended For

Properly Prepared and Primed Ferrous & Non-Ferrous Metal.

## General Description

Quick Dry Alkyd Enamel is a high-performance, single-component, quick-dry, rust preventive enamel formulated for use on ferrous metal substrates. It provides corrosion resistance for both interior and exterior steel surfaces. Not recommended for non-ferrous metals such as galvanized, aluminum unless properly primed, Quick Dry Alkyd Enamel may be applied to new or properly prepared, rusted surfaces.

## Limitations

- Not recommended for non-ferrous metals such as galvanized, aluminum unless properly primed.
- Not recommended for floors or for extreme environments.
- Not recommended for exterior wood surfaces.
- Not recommended for immersion service or contact with strong solvents.

Product Information																																																																												
<p><b>Colors — Standard:</b> White (01), Bronzestone (62), Light Gray (71), Battleship Gray (75), Black (80), Wrought Iron Black (81) – <i>Flat Finish</i></p> <p><b>— Tint Bases:</b> N/A</p> <p><b>— Special Colors:</b> Contact your retailer.</p> <p><b>Certification:</b>  The products supported by this data sheet contain a maximum of 400 grams per liter VOC / VOS (3.33 lbs. /gal.) excluding water &amp; exempt solvents.  This product is compliant under the Ozone Transport Commission regulations as a Rust Preventive Coating.  Masters Painters Institute MPI # 81 Suitable for use in USDA inspected facilities</p> <p><b>Technical Assistance:</b>  Available through your local authorized independent Benjamin Moore® retailer. For the location of the retailer nearest you, call 1-866-708-9180, or visit <a href="http://www.benjaminmoore.com">www.benjaminmoore.com</a></p>	<table border="1"> <thead> <tr> <th colspan="2">Technical Data◇</th> <th>White</th> </tr> </thead> <tbody> <tr> <td>Vehicle Type</td> <td colspan="2">Vinyl Toluene Alkyd</td> </tr> <tr> <td>Pigment Type</td> <td colspan="2">Titanium Dioxide</td> </tr> <tr> <td>Volume Solids</td> <td colspan="2">52 ± 1.0%</td> </tr> <tr> <td>Coverage per Gallon at Recommended Film Thickness</td> <td colspan="2">350 - 450 Sq. Ft.</td> </tr> <tr> <td rowspan="2">Recommended Film Thickness</td> <td>– Wet</td> <td>3.6 - 4.6 mils</td> </tr> <tr> <td>– Dry</td> <td>1.9 - 2.4 mils</td> </tr> <tr> <td colspan="3">Depending on surface texture and porosity. Be sure to estimate the right amount of paint for the job. This will ensure color uniformity and minimize the disposal of excess paint.</td> </tr> <tr> <td rowspan="3">Dry Time @ 77 °F (25 °C) @ 50% RH</td> <td>– Tack Free</td> <td>30 Minutes</td> </tr> <tr> <td>– To Recoat *</td> <td>2 Hours</td> </tr> <tr> <td>– Full Cure</td> <td>5 – 7 Days</td> </tr> <tr> <td colspan="3">*<b>Maximum Recoat:</b> See Application Section For Important Recoat Information</td> </tr> <tr> <td colspan="3">High humidity and cool temperatures will result in longer dry, recoat and service times.</td> </tr> <tr> <td>Dries By</td> <td colspan="2">Oxidation</td> </tr> <tr> <td>Viscosity</td> <td colspan="2">67 – 77 KU</td> </tr> <tr> <td>Flash Point</td> <td colspan="2">50 °F (TT-P-141, Method 4293)</td> </tr> <tr> <td rowspan="2">Gloss/Sheen</td> <td colspan="2">Semi-Gloss (30-50 @ 60°)</td> </tr> <tr> <td colspan="2">Wrought Iron Black - Flat (0-5 @ 60°)</td> </tr> <tr> <td rowspan="2">Surface Temperature at Application</td> <td>– Min.</td> <td>50 °F</td> </tr> <tr> <td>– Max.</td> <td>90 °F</td> </tr> <tr> <td>Thin With</td> <td colspan="2">Do Not Thin</td> </tr> <tr> <td>Clean Up Thinner</td> <td colspan="2">Mineral Spirits or High Flash Naphtha</td> </tr> <tr> <td>Weight Per Gallon</td> <td colspan="2">10.4 lbs.</td> </tr> <tr> <td rowspan="2">Storage Temperature</td> <td>– Min.</td> <td>45 °F</td> </tr> <tr> <td>– Max.</td> <td>95 °F</td> </tr> <tr> <td colspan="3"><b>Volatile Organic Compounds (VOC)</b></td> </tr> <tr> <td></td> <td>389 Grams/Liter</td> <td>3.25 Lbs./Gallon</td> </tr> </tbody> </table>	Technical Data◇		White	Vehicle Type	Vinyl Toluene Alkyd		Pigment Type	Titanium Dioxide		Volume Solids	52 ± 1.0%		Coverage per Gallon at Recommended Film Thickness	350 - 450 Sq. Ft.		Recommended Film Thickness	– Wet	3.6 - 4.6 mils	– Dry	1.9 - 2.4 mils	Depending on surface texture and porosity. Be sure to estimate the right amount of paint for the job. This will ensure color uniformity and minimize the disposal of excess paint.			Dry Time @ 77 °F (25 °C) @ 50% RH	– Tack Free	30 Minutes	– To Recoat *	2 Hours	– Full Cure	5 – 7 Days	* <b>Maximum Recoat:</b> See Application Section For Important Recoat Information			High humidity and cool temperatures will result in longer dry, recoat and service times.			Dries By	Oxidation		Viscosity	67 – 77 KU		Flash Point	50 °F (TT-P-141, Method 4293)		Gloss/Sheen	Semi-Gloss (30-50 @ 60°)		Wrought Iron Black - Flat (0-5 @ 60°)		Surface Temperature at Application	– Min.	50 °F	– Max.	90 °F	Thin With	Do Not Thin		Clean Up Thinner	Mineral Spirits or High Flash Naphtha		Weight Per Gallon	10.4 lbs.		Storage Temperature	– Min.	45 °F	– Max.	95 °F	<b>Volatile Organic Compounds (VOC)</b>				389 Grams/Liter	3.25 Lbs./Gallon
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◇ Reported values are for White. Contact retailer for values of other bases or colors.

## Quick Dry Alkyd Enamel Semi-Gloss V231

### 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. For additional protection, the use of a rust inhibitive primer such as V133 Shop Cote Metal Primer or V131/V132 Universal Primer is recommended.

**Previously Painted Surfaces:** Wash and rinse any areas that may have oil or grease residue using Corotech V630 Oil & Grease Emulsifier. 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.

**Galvanized Metal or Aluminum:** Apply 1 coat of V110 Acrylic Metal Primer or V175 Waterborne Bonding Primer.

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

### Application

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

**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.

If necessary, small areas can be brushed or rolled using a Natural Brush or 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 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.

**Maximum Recoat:** 18 hrs. (Light sanding required after 18 hrs.)

**Full Cure:** 5-7 Days

TEST DATA	
Fungal Resistance (TT-P-18)	No Mildew
Flexibility (ASTM D1737)	Pass 1/4" Mandrel
Dry Heat Resistance	200 °F
Wet Heat Resistance	150 °F
Adhesion (ASTM D3359)	Pass 5B
Salt Fog Resistance (ASTM B117) Two coats over V132 Line Primer	200 Hours-Pass (Rating: 10, Rust Area: 0.00%)

CHEMICAL RESISTANCE GUIDE (NON-IMMERSION)	
Fresh Water	Excellent
2% Sodium Hydroxide	Excellent
5% Acetic Acid	Excellent
Lactic Acid	Excellent
Mineral Oil	Excellent

SYSTEMS RECOMMENDATIONS
<b>COMPATIBLE PRIMERS</b>
V110 Line, V114, V130 Line, V131 Line, V132 Line, V133 Line, V140 Line, V142 Line, V155 Line, V150 Line, V160 Line, V163, V175, V180 and Other Acrylic and Alkyd Primers

### Clean Up

Clean with Mineral Spirits or High Flash Naphtha.

### Environmental Health & Safety Information

#### DANGER!

**May cause an allergic skin reaction**

**May cause genetic defects**

**May cause cancer**

**May be fatal if swallowed and enters airways**

**Highly 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. Avoid breathing dust/fume/mist/vapors/spray. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves. 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. If on skin (or hair), take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. If swallowed, immediately call a POISON CENTER or physician. Do NOT induce vomiting. In case of fire, use CO<sub>2</sub>, 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 the 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:** This product contains a chemical known to the state of California to cause cancer and birth defects, or other reproductive harm.

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

**KEEP OUT OF REACH OF CHILDREN  
FOR METAL SUBSTRATES ONLY**

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