



RAPID DRY ALKYD ENAMEL V220

Features

- Tack free in 10 minutes – recoat in 2 hours (77 °F, 50% RH)
- Excellent gloss and color retention
- Spray only – airless or HVLP systems
- No orange peel
- Hard, scratch- and impact-resistant coating
- Intended for shop and OEM applications only

Recommended For

Primed Ferrous Metals (Steel & Iron). Corotech® Rapid Dry Alkyd Enamel can be used in shop application facilities in the fabrication market. May also be used on properly prepared and primed wood, concrete or composition board.

General Description

Rapid Dry Alkyd Enamel is a high-performance, quick-dry, rust-preventive shop enamel formulated for use on ferrous metal substrates. Rapid Dry Alkyd Enamel is excellent for use in shop application facilities in the fabrication market, and also is ideal for use in the industrial refurbishment market as an implement, dumpster, machinery, or construction enamel.

Limitations

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

Product Information																																																		
<p>Colors — Standard: White (01), Safety Yellow (10), Safety Red (20), Safety Blue (30) Satin Black (192), Aluminum (78), Black (80)</p> <p>— Tint Bases: Tintable White (86), Deep Base (87), Clear Base (88). Tint with Industrial (844 Type) Colorants Only</p> <p>— Special Colors: Contact your retailer.</p> <p>Certifications & Qualifications: OEM/SHOP USE ONLY The products supported by this data sheet contain a maximum of 575 grams per liter VOC / VOS (4.8 lbs. /gal.) excluding water & exempt solvents. Masters Painters Institute MPI # 96. V220 meets performance requirements of MIL-P-15090 Type II V220-80 meets performance requirements of SSPC Paint #103</p> <p>Technical Assistance: Available through your local authorized independent Benjamin Moore® retailer. For the location of the retailer nearest you, call 1-866-708-9180, or visit www.benjaminmoore.com</p>	<p>Technical Data White</p> <table border="1"> <tr> <td>Vehicle Type</td> <td colspan="2">Modified Alkyd</td> </tr> <tr> <td>Pigment Type</td> <td colspan="2">Titanium Dioxide</td> </tr> <tr> <td>Volume Solids</td> <td colspan="2">37.5 ± 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>3.5 – 4.5 mils</td> </tr> <tr> <td>– Dry</td> <td>1.3 – 1.7 mils</td> </tr> </table> <p>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.</p> <table border="1"> <tr> <td rowspan="3">Dry Time @ 77 °F (25 °C) @ 50% RH</td> <td>– Tack Free</td> <td>10 Minutes</td> </tr> <tr> <td>– To Recoat*</td> <td>2 Hours</td> </tr> <tr> <td>– Full Cure</td> <td>5 - 7 Days</td> </tr> </table> <p>*Maximum Recoat: See Application Section For Important Recoat Information</p> <p>High humidity and cool temperatures will result in longer dry, recoat and service times.</p> <table border="1"> <tr> <td>Dries By</td> <td>Oxidation</td> </tr> <tr> <td>Viscosity</td> <td>65 – 70 KU</td> </tr> <tr> <td>Flash Point</td> <td>80 °F (TT-P-141, Method 4293)</td> </tr> <tr> <td rowspan="2">Gloss / Sheen</td> <td>Gloss (85+ @ 60°)</td> </tr> <tr> <td>Satin Black V220.192 (40-45 @ 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>Do Not Thin</td> </tr> <tr> <td>Clean Up Thinner</td> <td>V701 Brushing Reducer or V703 Xylene</td> </tr> <tr> <td>Weight Per Gallon</td> <td>9.8 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> </table> <p>Volatile Organic Compounds (VOC) 570 Grams/Liter 4.76 Lbs./Gallon</p> <p>Shop – OEM Applications Only</p>	Vehicle Type	Modified Alkyd		Pigment Type	Titanium Dioxide		Volume Solids	37.5 ± 1.0%		Coverage per Gallon at Recommended Film Thickness	350 – 450 Sq. Ft.		Recommended Film Thickness	– Wet	3.5 – 4.5 mils	– Dry	1.3 – 1.7 mils	Dry Time @ 77 °F (25 °C) @ 50% RH	– Tack Free	10 Minutes	– To Recoat*	2 Hours	– Full Cure	5 - 7 Days	Dries By	Oxidation	Viscosity	65 – 70 KU	Flash Point	80 °F (TT-P-141, Method 4293)	Gloss / Sheen	Gloss (85+ @ 60°)	Satin Black V220.192 (40-45 @ 60°)	Surface Temperature at Application	– Min.	50 °F	– Max.	90 °F	Thin With	Do Not Thin	Clean Up Thinner	V701 Brushing Reducer or V703 Xylene	Weight Per Gallon	9.8 lbs.	Storage Temperature	– Min.	45 °F	– Max.	95 °F
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◇ Reported values are for White. Contact retailer for values of other bases or colors.

Rapid Dry Alkyd Enamel V220

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. The use of a rust inhibitive primer such as V133 Shop Coat 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 V600 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 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. 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.

Recoating Corotech® Alkyd Enamel with itself: Due to the curing mechanism of this coating, recoating should take place between the minimum recoat time (listed in Technical Data Table) and 8 hours. **If more than 8 hours has elapsed, wait a total of 24 hours before recoating, or wrinkling could occur. After 24 hours (at 77 °F) recoating will not be a problem. If recoating is necessary after 8 hours and before 24 hours, scuff sand with 180 grit sandpaper and let stand 30 minutes before applying the next coat.**

TEST DATA	
Flexibility (ASTM D1737)	Pass 1/4" Mandrel
Dry Heat Resistance	300 °F
Wet Heat Resistance	150 °F
Adhesion (ASTM D3359)	Pass 5B
Salt Fog Resistance (ASTM B117) Two coats over V132 Line primer	500 Hours-Pass (Rating: 10 Rust Area: 0.00%)
Gloss Retention by QUV Testing (ASTM G53) 500 Hours	75% Retention after 500 Hrs
Abrasion Resistance by Taber (ASTM D1044) CS-10 Wheel, 1000 g load, 1000 rotations	120mg loss after 1000 cycles

CHEMICAL RESISTANCE GUIDE (NON-IMMERSION)	
Fresh Water	Excellent
Salt Water	Excellent
Acids	Good
Alkalis	Good
Solvents	Fair
Fuel	Fair
Acidic Salt Solutions	Good
Alkaline Salt Solutions	Good
Neutral Salt Solutions	Good

SYSTEMS RECOMMENDATIONS	
COMPATIBLE PRIMERS	
V110 Line, V114, V130, V131 Line, V132 Line, V133 Line, V140 Line, V142 Line, V155, V150 Line, V160 Line, V163, V175, V180 and other Acrylic and Alkyd primers	

Clean Up

Clean with Corotech® V701 or V703 (Xylene).

Environmental Health & Safety Information

Danger

Harmful if inhaled

Causes skin irritation

Causes serious eye irritation

May cause an allergic skin reaction

Suspected of causing cancer

May cause respiratory irritation

May cause 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. Use only outdoors or in a well-ventilated area. Wash face, hands and any exposed skin thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Do not breathe dust/fume/ gas/ mist/ vapors/ spray. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. 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. Keep cool. Wear protective gloves/protective clothing/eye protection/face protection.

Response: IF exposed or concerned: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. If skin irritation or rash occurs: Get medical advice/attention. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF SWALLOWED: Immediately call a POISON CENTER or doctor/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 container tightly closed.

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: 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.

**KEEP OUT OF REACH OF CHILDREN
FOR PROFESSIONAL USE ONLY**

**THIS PRODUCT IS INTENDED FOR SHOP OR
OEM APPLICATION ONLY.**

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