Benjamin Moore

COROTECH® HIGH PERFORMANCE

WATER REDUCIBLE ALKYD ENAMEL V210

Features

- Ease of application
- Exceptional flow allows for an aesthetically pleasing finish
- Excellent protective qualities when used in interior or exterior applications

General Description

Water Reducible Alkyd is a water-thinned industrial enamel offering the application and performance characteristics of a conventional alkyd enamel without the clean-up normally associated with these products.

Recommended For

Excellent for use in the general metal finishing / fabrication market, industrial maintenance and refurbishment market, tank refinishing and refurbishment market, and other markets requiring water thinned products with the performance attributes of conventional alkyds.

Limitations

- Do not apply at ambient or surface temperatures below 50 °F (10 °C). Relative humidity should be below 90%.
- Do not apply if within 5 degrees of the dew point or if rain is expected within 12 hours of application.
- Not for use on floors.
- Not recommended for non-ferrous metals such as galvanized, or aluminum unless previously painted or properly primed.
- Not recommended for exterior wood surfaces.

Product Information

Colors — Standard:

Tintable White (86), Black (80)

— Tint Bases:

Tintable White (86), Clear Base (88)

Tint with Universal Colorants Only

— Special Colors:

Contact your retailer.

Certification & Qualifications:

The products supported by this data sheet contain a maximum of 340 grams per liter VOC / VOS (2.84 lbs/gal.) excluding water and exempt solvents.

VOC REGION	COMPLIANT
FEDERAL	YES
OTC	YES
OTCII	NO
CARB	NO
CARB07	NO
UTAH	NO
AZMC	YES
SCAQMD	NO

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

Technical Data		Tintable White
Generic Type		Modified Alkyd
Pigment Type		Titanium Dioxide
Volume Solids		29 ± 1.0%
Coverage per Gallon at Recommended Film Thickness		350 – 450 Sq. Ft.
Recommended Film Thickness	– Wet	3.5 – 4.6 mils
	– Dry	1.0 – 1.3 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	– To Touch	1 Hour
	– To Recoat	2 Hours
	– Full Cure	4 - 6 Days
*If top coat is not applied within 72 hours abrade the surface to ensure proper inter-coat adhesion. Maximum abrasion and chemical resistance are achieved at full cure; care should be taken to prevent damage to the coating during the curing process. High humidity and cool temperatures will result in longer dry, recoat and cure times.		
Dries By		Oxidation
Viscosity @ 77°F (mixed as recommended)		100–105 KU
Flash Point		200 °F or greater (TT-P-141, Method 4293)
Gloss/Sheen		Gloss (85 – 95 @ 60°)
Surface Temperature at application	– Min.	50 °F
	– Max.	100 °F
Surface must be dry and at least 5° above the dew point		
Thin With		Thin Sparingly only with Water
Clean Up		Water
Weight Per Gallon		10.4 lbs.
Storage Temperature	– Min.	40 °F
	– Max.	90 °F

Volatile Organic Compounds (VOC)

336 Grams / Liter 2.80 Lbs / Gallon

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

Surface Preparation

The performance of this product is directly dependent upon the degree of surface preparation employed. All dirt, oils and accumulated salts must be removed prior to employing specific surface preparation methods. SSPC-SP1 Solvent Cleaning will best accomplish this task. All rust and mill scale must be removed prior to application of this product. This is best accomplished by abrasive blasting. A minimum of SSPC-SP6 Commercial Blast is recommended for severe environmental exposures. Small areas may be cleaned in accordance with SSPC-SP2 Hand Tool Cleaning or SSPC-SP3 Power Tool Cleaning or SSPC-SP13 Power Tool Cleaning to Bare Metal. Galvanized steel should be solvent washed as outlined above and primed. Existing coatings should be cleaned as stated above and then checked for compatibility by application of a test patch.

For use on substrates other than carbon steel, iron or galvanized steel, please use the proper primer as specified by Technical Service.

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 task. Application in normal temperatures (50 °F to 100 °F) or normal humidity levels (30 to 95%) should not require thinning, however small amounts of water may be used if necessary.

Airless Spray (Preferred Method): Tip range between 13 and 17 thousandths. Total fluid output pressure at tip should not be less than 2200 psi.

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

NOTE: Do not allow material to remain in hoses, gun or spray equipment. Thoroughly flush all equipment with warm water.

Brush: Natural Bristle for small areas.

Roller: Industrial Cover with Phenolic core for small areas.

Recoating V210 Line with itself: Recoating V210 Line with itself (@77 °F) should be done within 5 hours of initial coat application or after a 36 hour cure period. This is due to the sensitivity to solvent within this 5 to 36 hour window. Cooler temperatures will extend this time period.

TEST DATA	
Flexibility (ASTM D1737)	Pass 1/8" Mandrel
Dry Heat Resistance	300 °F
Wet Heat Resistance	150 °F
Gloss Retention by QUV Testing (ASTM G53) 500 hours	90% Gloss retention
Pendulum Hardness – Persoz (ASTM D4366)	94
Adhesion (ASTM D3359)	Passes 5B
Abrasion Resistance - (ASTM D4060) CS-10 Wheel 1000g load	.17 mg loss
Salt Fog Resistance (ASTM B117) Two coats DTM	500 hours - Pass

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

SYSTEMS RECOMMENDATIONS	
PRIMERS	
Ferrous Metal (Primers)	V125 Water Reducible Epoxy Ester Primer V131 Universal Metal Primer V132 Prep All Universal Metal Primer V133 Shop Cote Primer V140 Alkyd Fabrication Primer
Non-Ferrous Metal (Primer):	V125 Water Reducible Epoxy Ester Primer
For substrates other than listed above, or for usage in severe environmental conditions, please consult with Corotech® Technical Service.	

Clean Up:

Clean up with water.

Environmental Health & Safety Information

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Keep container closed when not in use. In case of spillage, absorb with inert material and dispose of in accordance with local regulations. Wash thoroughly after handling. Refer to Safety Data Sheet for additional health and safety information.

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
KEEP FROM FREEZING
FOR PROFESSIONAL USE ONLY

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