Benjamin Moore

COROTECH HIGH PERFORMANCE

RAPID DRY GLOSS COATING V220

Features

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

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.

Recommended For

Primed Ferrous Metals (Steel & Iron). Corotech® Rapid Dry Gloss Coating 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.

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

Colours — Standard:

Tintable White (86), Safety Yellow (10), Safety Red (20), Safety Blue (30) Aluminum (78), Black (80)

— Tint Bases:

Tintable White (86), Deep Base (87), Clear Base (88).

Tint with Industrial (844 Type) Colorants Only

— Special Colours:

Contact your retailer.

Certification:

The products supported by this data sheet contain a maximum of 575 grams per litre VOC / VOS excluding water & exempt solvents.

This product is not compliant under Architectural Coatings regulations and is intended for Shop Applications

This product is currently approved under MPI #96.

V220 meets performance requirements of MIL-P-15090 Type II

V220-80 meets performance requirements of SSPC Paint #103

Certified by CFIA (Canadian Food Inspection Agency)

Technical Assistance:

Available through your local authorized independent Benjamin Moore® retailer. For the location of the retailer nearest you, call 1-877-711-6830, or visit www.benjaminmoore.ca

Technical Data◊		Tintable White
Vehicle Type		Modified Alkyd
Pigment Type		Titanium Dioxide
Volume Solids		37.5 ± 1.0%
Coverage per 3.79 L at Recommended Film Thickness		32.5-41.8 sq. m. 350 – 450 sq. ft.)
Recommended Film Thickness	– Wet	3.5 – 4.5 mils
	– Dry	1.3 – 1.7 mils
Depending on surface texture and porosity. Be sure to estimate the right amount of paint for the job. This will ensure colour uniformity and minimize the disposal of excess paint.		
Dry Time @ 25 °C (77 °F) @ 50% RH	– Tack Free	10 Minutes
	– To Recoat*	2 Hours
	– Full Cure	5 - 7 Days
***Maximum Recoat: 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		65 – 70 KU
Flash Point		26.7 °C (80 °F) (TT-P-141, Method 4293)
Gloss / Sheen		85+ units @ 15.6 °C (60 °F)
Surface Temperature at Application	– Min.	10 °C (50 °F)
	– Max.	32.2 °C (90 °F)
Thin With		Do Not Thin
Clean Up Thinner		V701 Brushing Reducer or V703 Xylene
Weight Per 3.79 L		4.4 kg (9.8 lbs)
Storage Temperature	– Min.	7.2 °C (45 °F)
	– Max.	35 °C (95 °F)

Volatile Organic Compounds (VOC)

570 Grams/Litre
Shop – OEM Applications Only

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

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 alkyd primer or 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 logging onto Health Canada @ http://www.hc-sc.gc.ca/ewh-semt/contaminants/lead-plomb/asked_questions-questions_posees-eng.php

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 9.53 mm (3/8") lambs wool or 6.35 mm – 12.7 mm (¼" – ½") 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 10 °C (50 °F). 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® Rapid Dry Gloss Coating 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 25 °C (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 6.4 mm (1/4") Mandrel
Dry Heat Resistance	148.9 °C (300 °F)
Wet Heat Resistance	65.6 °C (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, V132 Line, V142 Line, V155, V150 Line, V160 Line, 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

Risk of spontaneous combustion

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/mist/vapors/spray. 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. Keep cool. Wear protective gloves/protective clothing/eye protection/face protection. Immediately after use, place rags, steel wool or waste used with this product in a sealed water-filled metal container or lay flat to dry.

Response: If exposed or concerned get medical 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 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 inhaled remove victim to fresh air and keep at rest in a position comfortable for breathing. 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 container tightly closed.

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

Materials such as rags used with this product may begin to burn by themselves. After use, put rags in water or lay flat to dry, then discard.

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.

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