



HIGH SOLID RAPID DRY GLOSS COATING V225

Features

- Durable hard finish
- Dries quickly for fast production
- Spray application only; small areas may be brushed or rolled
- Rust-preventive coating

Recommended For

Use in field or shop application in the general metal finishing/fabrication market, the industrial maintenance market, food and beverage processing facilities or any place a general purpose, quick drying enamel is required. May also be used on properly prepared and primed wood or composition board (interior only) and concrete (interior and exterior).

General Description

V225 is designed as a finish coat for metal where a rugged, abrasion-resistant, high-gloss finish is desired. This product may be used in field painting applications as well as shop applications. Designed for interior or exterior use, the chain stop formulation far surpasses many high-solids enamels on the market in gloss and color retention in exterior exposures.

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 recommended for immersion service or contact with strong solvents.
- 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), Safety Yellow (10), Safety Red (20), Black (80)

— Tint Bases:

Tintable White (86), Deep Base (87), Clear Base (88).
Tint with Industrial (844 Type) 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.
Masters Painters Institute MPI # 48, 96

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[◇]

Generic Type	Chain Stop Alkyd
Pigment Type	Titanium Dioxide
Volume Solids	52% ± 1.0%

Coverage per Gallon at	
Recommended Film Thickness	320 – 420 Sq. Ft.
Recommended	– Wet 3.8 - 5.0 mils
Film Thickness	– Dry 2.0 - 2.6 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	– Block (Cure)	20 Minutes
@ 50 % RH	– To Recoat	1-6 Hours*
	– Full Cure	36 Hours

*If top coat is not applied within 6 hours, wait a full 36 hours then 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 Cure
Dry Heat Resistance	300 °F
Viscosity @ 77°F (mixed as recommended)	100 – 105 KU
Flash Point	50 °F (TT-P-141, Method 4293)
Gloss/Sheen	High Gloss (85+ @ 60°)
Surface Temperature	– Min. 50 °F
at application	– Max. 100 °F

Surface must be dry and at least 5° above the dew point	
Thin With	Acetone
Clean Up Thinner	Corotech® V703 or Xylene
Weight Per Gallon (mixed as recommended)	11.0 lbs.
Storage Temperature	– Min. 40°F
	– Max. 90°F

Volatil Organic Compounds (VOC)

332 Grams / Liter 2.77 Lbs. / Gallon

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

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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. Pressure washing with Corotech V600 Oil & Grease Emulsifier (min. 2500 psi) will best accomplish this task. SSPC-SP1 Solvent Cleaning will also remove surface contaminants.

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-SP11

Power Tool Cleaning to Bare Metal. This product may be applied directly to clean ferrous metal, however, for best corrosion protection the use of a primer is recommended.

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 ferrous metal or iron, 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. At temperatures above 90°F, or in very low humidity (less than 30%), this product may dry excessively fast, and the use of a slower solvent (High Flash Naphtha) may be required as a thinner.

Application in normal temperatures (50 to 100°F) or normal humidity (30 to 85%) should not require thinning, however small amounts of acetone 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 2100 psi.

Air Spray (Pressure Pot): DeVilbiss 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 recommended thinner or follow local/state guidelines on solvent use.

Brush: Natural Bristle for small areas only due to fast dry nature of this product.

Roller: Industrial Cover with Phenolic core for small areas only due to fast dry nature of this product.

Recoating V225 with itself: Due to the curing mechanism of this coating, recoating should take place between 1 and 6 hours (at 77 °F). If more than 6 hours has elapsed, wait a total of 36 hours before recoating, or wrinkling could occur. After 36 hours (at 77 °F) recoating will not be a problem.

TEST DATA	
Flexibility (ASTM D1737)	Pass 1/4" Mandrel
Dry Heat Resistance	300 °F
Wet Heat Resistance	150 °F
Gloss Retention by QUV Testing (ASTM G53) 500 hours	75% retention
Abrasion Resistance Taber (ASTM D1044) CS-10 Wheel, 1000g load, 1000 rotations	120 mg loss
Salt Fog Resistance (ASTM B117) Two coats over V125 primer	1,000 hours

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	
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.	

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Clean Up

Clean up with Corotech® V703 or Xylene or follow local/state guidelines on solvent use.

Environmental Health & Safety Information

DANGER!

May cause an allergic skin reaction

May cause cancer

Causes damage to organs through prolonged or repeated exposure

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. 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. 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.

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

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