

Product Description

V-766e Vinyl Coating is a fast dry, vinyl resin coating that is suitable as a first, intermediate, or finish coat over properly prepared steel, concrete, or plaster substrates. V-766e Vinyl Coating offers a smooth, tough film with excellent flexibility and impact resistance.

Intended Uses

For applications specifically specifying V-766e vinyl coatings. May be used as self-priming or as a finish over VZ-108d Zinc-Rich Vinyl Impact Immersion Coating. Intended for Immersion Service.

Physical Properties

Resin Type	Vinyl	
Finishes/Sheens	60° @ 60°	
Colors	White IE-1601, Gray IE-0602	
Solids by Weight	33%	
Solids by Volume	19%	
Theoretical Coverage*	304 ft ² /gal @ 1 mil	
Dry Film Thickness / Coat	1.5 mils (38 microns)	
Wet Film to Achieve DFT	7.5–8.0 mils (188–200 microns)	
Coverage at DFT*	188 ft. ² /gal	
VOCs	5.62 lbs./gal (674 grams/liter)	
Viscosity	60–90 sec. #4 Ford	
Reduction Solvents	Below 50° F (10° C)	MEK, Diamond Vogel N-4006
For these temperature ranges	50°–70° F (10°–70° C)	MIBK, Diamond Vogel N-4003
	Above 70° F (21° C)	MIAK, Diamond Vogel N-4007
Clean-up Solvents	MIBK	
Drying Time**	Set to Touch: 5–7 minutes Tack Free: 20–25 minutes Through: 2–3 hours Immersion: After 3 days	
70° F (21° C) and 50% Relative Humidity ASTM D1640-83 reapproved 1989		

* Coverage rates are estimates based on the products volume solids and make no allowance for material loss during application. Actual spread rates may vary dependent on applicator experience, surface porosity, and texture.

** Dry times vary with surface temperature, air movement, humidity, and film thickness.

Qualifications

V-766e meets performance and composition based on the Corps of Engineers Specification.

Surface Preparation

All surfaces must be clean, sound, dry, and free of all dirt, dust, wax, oil, grease, chalk, and any other contamination that would interfere with new coating adhesion. Bare surfaces must be properly prepared prior to application of this product.

Ferrous Metal Surfaces: An abrasive blast according to SSPC-SP-5/NACE No. 1, White Metal Blast Cleaning.

Application

Stir material thoroughly prior to application. Intermix containers to ensure color uniformity of all material. Minimum surface and air temperature required for application is between 35°F (2°C) and 125°F (51°C) and at least 5°F (3°C) above the dew point. Temperature, humidity, and air movement affect curing. Application at elevated temperatures, wind conditions, and/or low humidity may require special application procedures to achieve proper film formation. Where thinning is required, please refer to the first page of this document, under “Physical Properties”, referencing “Reduction Solvents”. Brush, roll, or spray are acceptable methods of application; however, spray application is recommended.

Spray: Flush airless lines with Diamond Vogel N-4003. Equipment must be clean prior to start. Conventional air spray, airless equipment, or air assist airless is suitable. Airless pumps maintaining one gallon per minute at 2400 PSI is required. Apply a wet coat in even, parallel passes with 50% overlap to avoid bare areas and pinholes, crosshatch spray at right angles to the previous coat.

Tip Orifice	Atomizing Pressure	Material Hose ID	Manifold Filter
0.013" to 0.017"	2500PSI	1/4"	60 mesh

None of the above recommendations supersedes the Corp of Engineers specifications.

Packaging

Shipping Weight

Product	1 Gallon	5 Gallon	Product	1 Gallon	5 Gallon
V-766e Vinyl Coating	1 Gallon Pail	5 Gallon Pail	V-766e Vinyl Coating	9.27 lbs. (4.2 kg)	45.22 lbs. (20.51 kg)

Storage

One year from date of manufacture when maintained in protected area at a temperature of 40° to 100°F (4° to 38°C). Subject to inspection thereafter.

Safety Precautions

***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 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.

Paint Products contain chemical ingredients, which are considered hazardous. Prior to use, read container label warnings and the current Safety Data Sheet for important health and safety information. Ensure these instructions are practiced during product application and cure. **Keep out of the reach of children.**

Safety Data

“Safety Data Sheets” are available from your Diamond Vogel representative or the Diamond Vogel website at www.diamondvogel.com. Prior to use of this product, obtain and review the Safety Data Sheet for health and safety information. Read and observe all precautionary notices on container labels. **NOT INTENDED FOR RESIDENTIAL USE.**

Limited Warranty

The technical data and suggestions for use contained in this document are true and correct to the best of our knowledge at the date of issuance. The statements of this document do not constitute a warranty, expressed, or implied, as to the performance of these products. Since Diamond Vogel does not control the application of its products, or the condition of the surfaces to which they are applied, Diamond Vogel’s liability will, under no circumstances exceed replacement of the product. **All technical information is subject to change without notice.**

Additional Information

Cautions and Warnings information is located on the back panel of each product label.

For current information regarding VOC regulations for specific geographical regions, please contact Technical Service at Diamond Vogel Corporate Headquarters, (Contact information is located at the bottom of the page).