Diamond Vogel | INDUSTRIAL COATINGS

TECHNICAL DATA SHEET

Mult-E-Prime 565

Hi-Build Epoxy

DESCRIPTION: Mult-E-Prime 565 is a high solids, high-build epoxy formulated to provide outstanding corrosion protection in extreme environments while providing superior chemical and abrasion resistance. Its tenacious adhesion and ability to be applied to tightly adhering rust and other tightly adhered previous coatings make it a versatile choice in substrate protection and an excellent option as an intermediate coat over organic zinc, inorganic zinc, and catalyzed epoxy primers. Mult-E-Prime 565's rapid recoat time makes it highly adaptable to any workflow. Mult-E-Prime 565 is suitable for fresh water immersion and can be applied at ambient temperatures as low as 0°F (-17.8°C) or as high as 120°F (48.9°C). Please contact Diamond Vogel Technical Service for detailed information on immersion application.

PHYSICAL PROPERTIES (MIXED):

*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.

Resin Type	Epoxy			
Finish/Sheen	Satin, 30–40 @ 60°			
Colors	Gray PF02-49350, White PF12-49806			
Cure (Part B)	PF02-49352			
Solids by Weight	70-75%			
Solids by Volume	52-58%			
Theoretical Coverage*	850-900 ft²/gal @ 1 mil			
Dry Film Thickness / Coat	3.0–6.0 mils (75–150 microns)			
Wet Film to Achieve DFT	6.0–10.0 mils (150–250 microns)			
EPA VOC	2.8 lbs./gal (337 grams/liter) activated			
Reduction Solvents	Diamond Vogel N-4005 Zero VOC Reducer			
Clean-up Solvents	Diamond Vogel N-4006 MEK			
Induction Time	None			
Mixing Ratio (by volume)	1 part resin to 1 part cure. Product packaged in premeasured kits.			
Pot Life**	Standard Cure is 7 hours at 70°F (21°C) and 50% Relative Humidity			
Drying Time ASTM D1640	**At 120° F (48.9° C)**	**At 70°F (21° C)**	**At 32°F (0°C)**	**At 20°F (-6.7°C)**
Set to Touch (hours)	N/R	1 hour	1 ½ hours	3 hours
Dry Through: (hours)	N/R	5 ½ hours	24 hours	36 hours
Recoat/Topcoat	**Minimum Recoat**		**Maximum Recoat**	
	1 ½–2 hours		2 months	

** Extreme temperatures can dramatically shorten pot life.

SURFACE PREPARATION: Service expectancy of a coating is primarily dependent upon good surface preparation. The surface to be coated should be free of mill scale, rust, oil, and other contaminants, including salt deposits.

Mult-E-Prime 565

APPLICATION: This epoxy can be sprayed with all types of application equipment.
Airless: For airless application reduction should not be necessary.
Conventional Air: For conventional air and electrostatic spray some reduction may be necessary. N-4005 Zero VOC reducer or TBA is recommended.

PERFORMANCE:
Mult-E-Prime 565 meets or exceeds the following performance testing criteria:

Test Name	Test Method	Results
Abrasion Resistance	ASTM D 4060, CS-17 Wheel 1kg Load, 1000 Cycles	0.0752 wear index
Adhesion Testing	ASTM D 4541 Elcometer Pull Test	1000+ lb./sq. in.
Adhesion Testing	ASTM D 3359 Cross Hatch	4B
Impact Resistance	ASTM 2794	Direct 30 in./lbs. Reverse <5 in./lbs.
Heat Resistance	ASTM D 2485 High Temperature Service	Passes at 250°F (121°C)
Pencil Hardness	ASTM D 3363	H
Cyclic Weathering	ASTM D-5894 840 hours	No face blistering, face rust rated 10, <4 mm scribe creepage.
Corrosion Resistance	ASTM B 117-94 Salt Spray (Fog) Test 2,000 hours	Blisters - few clusters #8 & #6, face rust - 9P, scribe creep - <2 mm
Exterior Exposure	Epoxies will chalk and fade with extended exposure to sunlight. Yellowing is a normal occurrence. The use of heaters that emit carbon dioxide and carbon monoxide during application may cause excessive yellowing to occur.	

Additional Performance testing available upon request.

STORAGE: Two years 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: Safety Data Sheets are available from your Diamond Vogel representative. 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.**

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