

TECHNICAL DATA

Product Description

POOL-Cote EP is a versatile, self-priming, high build epoxy formulated for coating properly prepared new or existing pools. Epoxies are preferred products for spas, whirlpools and swimming pools. These products protect against abrasion, corrosive fumes, stains and chemical contact while providing a non-porous, tile-like finish. POOL-Cote EP is suitable for immersion service. It is surface tolerant over tightly adhered, existing coatings. POOL-Cote EP cures through a wide range of temperatures.

Intended Uses

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| <p>Apply to:</p> <ul style="list-style-type: none"> • Concrete • Gunit • Masonry surfaces | <p>Apply to:</p> <ul style="list-style-type: none"> • Plaster • Fiberglass | <p>Protects:</p> <ul style="list-style-type: none"> • Pools • Spas |
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The above are general recommendations and not intended to limit the use of POOL-Cote EP. Test areas are always recommended to confirm results.

Physical Properties

Resin Type	2 Component Epoxy Mastic			
Finish/Sheen	Semi-Gloss, 45–55 @ 60°			
Colors (Part A)	White LF-1210, Blue LF-7210			
Cure (Part B)	LM-0218			
Solids by Weight	87.2% ± 2%			
Solids by Volume	83% ± 2%			
Theoretical Coverage*	1270 ft ² /gal @ 1 mil			
Dry Film Thickness / Coat	5.0–8.0 mils (125–200 microns)			
Wet Film to Achieve DFT	6.0–10.0 mils (150–250 microns)			
Coverage at DFT*	159–254 ft ² /gal @ 5–8 mils DFT			
VOCs	1.9 lbs./gal (225 grams/liter) Activated			
Reduction Solvents	Diamond Vogel N-3023 Xylol (up to 1/2 pint per gallon) Maximum VOC Does Not Exceed 2.78 lbs./gal (334 g/L) Activated and Reduced			
Clean-up Solvents	Diamond Vogel N-3023 Xylol			
Induction Time	None			
Mixing Ratio (by volume)	1 part resin to 1 part cure. Product packaged in premeasured kits.			
Pot Life **	2 to 3 hours at 70°F (21°C)			
Drying Time*** ASTM D1640				
Set to Touch	At 90°F (32°C)	At 70°F (21°C)	At 50°F (10°C)	At 32°F (0°C)
POOL-Cote EP	3 hours	4 hours	10 hours	20 hours
Dry Through				
POOL-Cote EP	4 hours	9 hours	28 hours	80 hours
Recoat Time	Minimum	Maximum		
POOL-Cote EP	9 ½ hours	6 months		

* 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.

** Extreme temperatures can dramatically shorten pot life.

*** Dry and recoat times vary with surface temperature, air movement, humidity and film thickness. Cure time for immersion is 7 days, for interior pool application 10 days. If rain occurs during the cure process, add an extra day of dry time for each day of rain.

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Surface Preparation

All surfaces must be cured, clean, sound and free of all dirt, dust, efflorescence, 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.

Masonry Surfaces: (Poured Concrete) New concrete must cure for a minimum of 30 days at 72°F (22°C) prior to coating application. All surface projections, voids and depressions in the concrete should be filled using an appropriate product, following manufacturer's recommendations. Laitance must be removed as well as all soluble salts and efflorescence. Abrasive blasting is recommended, however, acid etching can be used in some applications.

Previously Painted Surfaces: Power or hand washing is recommended to remove contamination. If oil or grease is present, use of a cleaner/degreaser is required. All cleaning residue must be completely rinsed from the surface. Use of an acid wash using a 15 to 20% solution of muriatic acid to achieve a medium grade sandpaper finish on bare concrete is recommended. This should also remove most mineral deposits from previously painted surfaces. Rinse the surface and allow to dry. Remove all loose coatings by scraping, sanding or other abrading method as per SSPC-SP-2, Hand Tool Cleaning and SSPC-SP-3, Power Tool Cleaning or abrasive blast. The soundness of aged concrete or existing painted surfaces should be checked by measuring the surface tensile strength with an adhesion tester. Any surfaces that are determined to be subpar should be repaired before continuing. All joints and cracks should be filled with hydraulic cement or a polyurethane sealant. Use sandpaper to dull slick, glossy and or non-porous surfaces. To determine if Pool Cote is compatible with existing coatings, a test should be conducted for adhesion and for possible lifting of the previous coating.

Mildew: Remove by using a solution of one part household bleach and three parts water. Apply to mildewed area and scrub. Allow solution to remain on the surface for 3 to 5 minutes and then rinse completely and allow to dry before coating application.

Condensation: After all surface preparation has been completed and the pool area has been allowed to dry, a condensation test should be conducted. To determine if moisture is present tape down one-square foot pieces of clear plastic with duct tape on the floor and wall in the deep end of the pool and several other areas of the pool. Wait for three hours and remove plastic. If condensation is present underneath the plastic the substrate is not dry enough to paint. Remove the plastic and wait for twenty-four hours before you retest the surface. Continue with the test until no condensation forms under the plastic after waiting three hours.

Application

Part A (epoxy resin) and Part B (cure) have a 1:1 mixing ratio. Mix Part A and Part B separately using an explosion-proof power drill and blade type mixer. Add Part B to Part A and thoroughly mix and blend using an explosion-proof power drill and blade type mixer. Mix only the amount that can be used within the estimated pot life. For optimum application, air and surface temperature should be from 50° to 90°F (10° to 32°C). Above 122°F (50°C), sagging may occur. Surface temperature must be at least 5°F (3°C) above the dew point.

Brush or Roller: Apply product in full even coats. Maintain a wet edge. To ensure adequate film build, two coats are recommended when applying by brush or roller (See Recoat/Topcoat for recoat period). When applying this product by roller, use a 3/8" nap, or shorter, roller cover. Use a roller cover that is compatible with solvent or epoxy type coatings.

Airless Spray: Flush airless lines with Diamond Vogel N-3023 Xylol. Equipment must be clean prior to start. Thin only as needed for workability. Apply a wet coat in even, parallel passes with 50% overlap to avoid bare areas and pinholes. Backrolling is recommended to work the coating into the surface profile.

Tip Orifice	Atomizing Pressure	Material Hose ID	Manifold Filter
0.019" to 0.021"	2500–3000 PSI	1/4" or 3/8"	60 mesh

Packaging

Shipping Weight

Product	2 Gallon Kit	5 Gallon Kit	Product	2 Gallon Kit	5 Gallon Kit
Part A Resin	1 Gallon (full filled)	5 Gallon (1/2 filled)	Part A Resin	13.48 lbs. (6.11 kg)	35.84 lbs. (16.26 kg)
Part B Cure	1 Gallon (full filled)	2.5 Gallon (full filled)	Part B Cure	12.33 lbs. (5.59 kg)	32.75 lbs. (14.86 kg)

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.

TECHNICAL DATA**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. Insure these instructions are practiced during product application and cure. **Keep out of the reach of children.**

This finish may become slippery when wet. The use of a non-slip additive is recommended when used on horizontal surfaces such as porches, patios, steps or any other floor areas which are exposed to moisture. **However**, Diamond Vogel makes no guarantees or claims that this will prevent accidents. Diamond Vogel's liability is limited to the purchase price of the product.

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

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.

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).