



Heavy Duty Protective Coatings

LF-Series
POOL-Cote
Epoxy Mastic



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 cures through a wide range of temperatures and is V.O.C. compliant.

INTENDED USES

Designed for heavy duty commercial or residential maintenance on properly prepared concrete, plaster, gunite and fiberglass pools and spas. These are typical uses and are not intended to limit the use of this product. **Contact Diamond Vogel Technical Service for detailed information.**

PHYSICAL PROPERTIES

***Epoxies will chalk and fade with extended exposure to sunlight and chemicals. Yellowing is a normal occurrence with some epoxy products. The use of heaters that emit carbon monoxide during application may cause excessive yellowing to occur.**

| | POOL-Cote EP | POOL-Cote LS |
|----------------------------------|---|---|
| Colors | LF-1210 White, LF-7210 Blue | LF-9225 |
| Finish/Sheen | 45 - 55 @ 60° | 45 - 55 @ 60° |
| Cure (Part B) | LM-0218 | LM-0225 |
| Resin Type | 2 Component Epoxy | 2 Component Epoxy |
| Clean-up Solvents | Diamond Vogel N-3023 Xylol | Diamond Vogel N-4006 MEK |
| Solids By Weight | 87.2 % | 75% |
| Solids by Volume | 83 + or - 2% | 59% |
| Theoretical Coverage** | 1270 ft ² /gal @ 1 mil | 946 ft ² /gal @ 1 mil |
| Dry Film Thickness / Coat | 5 - 8 mils (125-200 microns) | 4 - 6 (100 - 150 microns) |
| Wet Film to Achieve DFT | 6 - 10 mils (150-250 microns) | 7 - 10 (175 - 250 microns) |
| Coverage at DFT** | 159 - 254 ft ² /gal @ 5 - 8 mils DFT | 157 - 236 ft ² /gal @ 4 - 6 mils DFT |
| VOC's | 1.78 lbs./gal. (213 - 214 grams/liter) Activated | 2.82 lbs./gal. (338 grams /liter) Activated |
| Induction Time | None | None |
| Mixing Ratio (by volume) | 1 part resin to 1 part cure. Product packaged in pre-measured kits. | |

*** Pot Life [At 70°F (21°C)]** 2-3 hours 7 hours

*** Extreme temperatures can dramatically shorten Pot life.**

****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.**

Drying Time* [ASTM D1640]

| | Set to Touch (hours) | | | |
|------------------------------|----------------------|----------------|----------------|---------------|
| | At 90°F (32°C) | At 70°F (21°C) | At 50°F (10°C) | At 32°F (0°C) |
| Pool-Cote EP | 3 | 4 | 10 | 20 |
| Pool Cote LS | | 1 | | 1.5 |
| Dry Through (hours)** | | | | |
| Pool-Cote EP | 4 | 9 | 28 | 80 |
| Pool-Cote LS | | 5.5 | | 24 |

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

****Standard cure time for immersion is 7 days. If rain occurs during the cure process, add an extra day of dry time for each day of rain. Contact Diamond Vogel Technical Service for detailed information.**

RECOAT/TOPCOAT
[At 70°F (21°C)]

Recoat Time*

| Product | Minimum Recoat | Maximum Recoat |
|--------------|----------------|----------------|
| Pool Cote EP | 9½ hours | 6 months |
| Pool-Cote LS | 1.5 – 2 hours | 2 months |

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

RECOMMENDED TOPCOATS

Pool- Cote EP Epoxy Mastic
Pool-Cote LS Epoxy Mastic

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

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 scrapping, sanding or other abrading method as per SSPC-SP-2 and SSPC-SP-3 or abrasive blast. Aged surfaces should be checked for integrity. Hollow, weak or crumbling concrete or plaster should be tested by tapping on surface. Any surfaces that are determined to be sub par 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 drying before coating application.

Condensation:

After all surface prep 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 a three hour wait.

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 Jiffler mixer. Add part B to part A and thoroughly mix and blend using an explosion-proof power drill and jiffler 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 insure 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 | Mat'l Hose ID | Manifold Filter |
|------------------|--------------------|---------------|-----------------|
| 0.019" to 0.021" | 2500-3000 psi | 1/4" or 3/8" | 60 mesh |

PACKAGING

| | 2 gallon kits | 5 gallon kits |
|----------------------|------------------------|------------------------------|
| Part A Resin | 1 Gallon (full filled) | 5 Gallon can (1/2 filled) |
| Part B Standard Cure | 1 Gallon (full filled) | 2.5 Gallon can (full filled) |

SHIPPING WEIGHT

2 gallon kits/ standard cure - 25 ½ lbs (11.6 kilos)
5 gallon kits/ standard cure - 62 ½ lbs (28.4 kilos)

STORAGE

Store in protected area maintained at 40 - 100°F (4 - 38°C).

SHELF LIFE

Two years from date of manufacture when maintained in protected storage. Product is subject to inspection thereafter.

SAFETY DATA

"Material Safety Data Sheets" are available from your Diamond Vogel representative. Prior to use of this product, obtain and review the Material Safety Data Sheet for health and safety information. Read and observe all precautionary notices on container labels. NOT INTENDED FOR RESIDENTIAL USE.

CAUTION

This finish may become slippery when wet. The use of a non-slip additive is recommended when used on zero depth entry areas. **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.

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 Paints does not control the application of its products, or the condition of the surfaces to which they are applied, Diamond Vogel Paint's liability will under no circumstances exceed replacement of the product. **All technical information is subject to change without notice.**

Diamond Vogel Paint
1110 Albany Place SE Orange City, IA 51041
Phone 712.737.8880 Fax 712.737.4998
marketing@diamondvogel.com www.diamondvogel.com