



Technical Data

PRODUCT DESCRIPTION

A two component epoxy concrete primer/sealer that provides an effective seal and bonding coat on unfinished concrete floors. VOC compliant.

INTENDED USES

Formulated for use as a primer or finish on bare concrete floors. An excellent seal coat prior to recommended finishes or as a single coat sealer to prevent dusting on concrete floors. Two coats will increase durability and sheen as a finish system. The use of this product prior to additional coats aids in the control of concrete out gassing. NOT RECOMMENDED FOR IMMERSION SERVICE.

PHYSICAL PROPERTIES

Color	Clear
Finish/Sheen	Gloss
Base (Part A)	LF-0209
Cure (Part B)	LM-0209
Resin Type	Epoxy
Clean-up Solvents	Diamond Vogel Gun Cleaner or Diamond Vogel Epoxy Solvent
Solids By Weight	44%
Solids by Volume	39%
Theoretical Coverage**	625 ft ² /gal @ 1 mil
Dry Film Thickness / Coat	1 - 2 mils (25 - 50 microns)
Wet Film to Achieve DFT	2.5 - 5 mils (100 - 137.5 microns)
Coverage at DFT**	312 - 625 ft ² /gal @ 1 - 2 mils DFT
VOC's	4.45 lbs./gal. (533.3 grams/liter)
Induction Time	45 minutes
Mixing Ratio (by volume)	1 part resin to 1 part cure
Thinning	DO NOT THIN
Pot Life	24 hours

Drying Time* (hours) [ASTM D 1640]	<u>At 70°F (21°C)</u>
	Set to Touch - 2 hours
	Recoat Time - Min. - 3 to 4 hours
	Recoat Time - Max. - 24 hours

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

RECOMMENDED TOPCOATS

V-Tech 505 Clear Epoxy Concrete Primer/Sealer (Self-priming)
 Miracle Glaze Moisture Cure Urethane
 Mult-E-Poxy 180 Epoxy Mastic

SURFACE PREPARATION

All surfaces must be cured, clean, sound, dry and free of all dirt, dust, efflorescence, oil, grease, chalk, previous paint films, curing compounds, form release agents and any other contamination that would interfere with new coating adhesion. Surfaces must be properly prepared prior to application of this product.

Masonry Surfaces: Poured Concrete Floors

New concrete should cure for a *minimum* of 30 days at 72°F (22°C) prior to coating application. If oil or grease is present, use of a cleaner/degreaser is required prior to shot-blasting or acid etching. All cleaning residue must be completely rinsed from the surface. It is recommended that bare concrete surfaces be roughened prior to coating application.

SURFACE PREPARATION

Masonry Surfaces (continued):

Poured Concrete Floors

Shot-blasting: Shot-blasting equipment should be vacuum equipped to reduce amount of spent shot on floor. The profile produced should be uniform and the floor should be vacuumed after blasting to remove debris. Shot-blasting will also effectively remove previous paint films and curing compounds.

Acid-etching: Prepare a 1:1 solution of muriatic acid and water. Apply the solution to the floor; if the concrete does not react to the acid solution by bubbling vigorously, a curing compound may be present and the floor will need to be mechanically abraded by shot-blasting. Scrub the floor with stiff bristle brushes or power floor scrubber and abrasive pad attachment until the bubbling reaction stops. Rinse the floor, preferably with high pressure water. If a high pressure rinse is not possible, rinse and remove water a *minimum* of three (3) times. **CAUTION! ACID SOLUTION AND/OR UN-NEUTRALIZED RINSE WATER MUST NOT BE ALLOWED TO FLOW INTO GROUND OR SEWER SYSTEM (DRAINS).**

Moisture Test: Test for moisture by taping a 2' x 2' plastic sheet over different areas of the floor. Examine the plastic after 24 hours for signs of moisture. If moisture is present, the floor should not be coated until the source of the moisture is determined.

Previously Painted Masonry Surfaces: Restore the surface to bare concrete by chemical stripping or shot-blasting and proceed as directed above. If oil or grease is present, use of a cleaner/degreaser is required prior to shot-blasting. All cleaning residue must be completely rinsed from the surface. Allow to dry.

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.

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. Mix only the amount that can be used within the estimated pot life. For optimum application, apply when air and surface temperatures are between 65° and 95°F (18° to 35°C) and the relative humidity is above 40%. Lower temperatures and humidity will inhibit proper film formation. Application at elevated temperatures, certain wind conditions and/or low humidity may require special application procedures to achieve proper film formation. Do not apply to surfaces that are damp. Provide good ventilation by forced air movement and extinguish all pilot lights.

Pad or Roller: Use a lambs wool pad or roller. Apply product in thin even coats. Maintain a wet edge. Allow the product to dry until tack free before recoating. Must be recoated within 24 hours to insure intercoat adhesion. **DO NOT THIN.**

STORAGE & SHELF LIFE

Store in protected area maintained at 40 - 100°F (4 - 38°C), for up to two years from date of manufacture. Subject to inspection thereafter.

SAFETY PRECAUTIONS

Paint products contain chemical ingredients which are considered hazardous. Prior to use, read container label warnings and the current Material 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.**

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