



**VEXCON**  
CHEMICALS, INC.

Protecting and improving concrete since 1974

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## POWERCOAT<sup>®</sup> EPOXY LD WATER BASE

LIGHT DUTY • GAS/OIL RESISTANT • COST EFFECTIVE • LOW ODOR

VOC Content: 192grams/liter or 1.60#/gal • VOC Content: 150grams/liter or 1.25#/gal

### DESCRIPTION

**POWERCOAT<sup>®</sup> EPOXY LD** is a two component colored or clear light duty epoxy coating that provides the strength of epoxy in an economical coating that is tough, chemical resistant and long lasting. Designed for concrete floors in areas of light to medium pedestrian, vehicle traffic and where occasional spillage of chemicals may occur such as gas stations, garages, distribution centers, driveways or any concrete surface requiring greater long term wear and staining resistance than a standard acrylic coating.

The presence of moisture will cause epoxies and urethane coatings to lose adhesion and fail. Powercoat breathable technology allows moisture vapor to pass through rather than becoming trapped, preventing blistering cracking and peeling. Independent tests verify that Powercoat has 3.30 perms rating, truly an epoxy that breathes.

### BENEFITS

- Better adhesion and durability than standard concrete sealers
- Excellent protection against gasoline, antifreeze, oil, salt and hot tire marking.
- Good chemical resistance.
- Available in clear and 19 standard and custom colors. See Vexcon Color Systems Chart
- Prevents efflorescence, dusting and spalling
- Vexcon's breathable technology
- Low odor
- Apply to new and existing concrete
- Can be applied to damp concrete
- Cost effective

### SURFACE PREPARATION EXISTING CONCRETE

The concrete surface must be properly repaired, structurally sound and cleaned. Use Vexcon's surface prep and cleaning products to properly clean the surface prior to application.

- To remove coatings such as epoxies, sealers and curing compounds use **Starseal EF Stripper**.
- The concrete should be cleaned with **Starseal EF Degreaser & Cleaner** to remove any dust, dirt or debris and allowed to dry for a minimum of 24 hours after cleaning.
- To remove efflorescence or to etch the surface for improved material penetration use **Certi-Vex Etch & Efflorescence Remover**.
- There should be no freestanding water.
- Large cracks should be repaired using **Powercoat Epoxy Joint Sealant**.

### PHYSICAL PROPERTIES

- |               |                              |                   |
|---------------|------------------------------|-------------------|
| • Dry         | Tack free                    | Less than 6 hours |
| • Curing time | Foot traffic                 | 24 hours          |
| • Curing time | Gasoline resistance          | 72 hours          |
| • Curing time | Heavy vehicle traffic        | One week          |
| • Solids      | 45% by volume, 53% by weight |                   |

### APPLICATION

- New concrete surfaces must be primed with **Powercoat Primer Water Base**.
- Powercoat Epoxy is supplied in two parts, A and B, which are mixed together just prior to use.
- Separately mix with a jiffy mixer the individual contents of each container until uniform in consistency. Then mix part B into part A. If less than full containers are to be used, mix in the proportions shown under packaging in this data sheet. The mixed material has a pot life of approximately 1 hour.
- **Two coats are required, second coat can be applied after the first coat has thoroughly dried. The dry time is dependent on temperature, air flow, film thickness and concrete conditions not a specific number of hours. Do not put on a second coat if the first coat is not dry.**
- Do not add thinner. The product is supplied at the proper consistency for application and dilution will reduce efficiency.
- Same lot numbers should be used throughout the project. If lot numbers differ box-mix prior to use. If two different lots are used, apply a final thin coat to the entire area.
- Apply by spray or roller. For best results use Vexcon's **EvenFlow Applicator** or ¼ " nap mohair roller.
- Use a roller pan to take off excess product. Do not dip and roll or pour and spread.
- If using a roller do not overwork the material. Coat in one lapping direction only, overworked material can affect the film properties.
- To protect your Powercoat floor from ongoing construction dust, dirt and debris, use **Certi-Vex Talc Release** until all construction work is completed.
- Clean application equipment daily with **Certi-Vex Equipment Cleaner**, then flush with water.
- To improve non-slip profile use **Certi-Vex Grip** or **Epoxy Non-Slip Additive**.
- For a unique and custom floor use **Certi-Vex Deco Chips**.

### CURING AND SEALING NEW CONCRETE

- Apply Powercoat Primer Water Base as soon as possible after the concrete has received final finishing, just as the water sheen disappears.
- If application is delayed, the concrete must be kept wet (preferably by water spray-mist) until the curing coat can be applied.
- Coat uniformly leaving no gaps, slips or excess, at a rate of 200-300 sq.ft/gal. (5.0-7.5 m<sup>2</sup>L).
- Let the concrete cure a minimum of 24-72 hours before application of Powercoat Epoxy LD.
- Apply Powercoat Epoxy LD according to the desired final dry film thickness. Two coats are required. See coverage date/estimating section.

## EXISTING CONCRETE

- Prior to application a test area must be performed to determine proper application rate and required surface preparation.
- To determine that the concrete is penetrable perform a water absorbency test by applying water to a representative portion of the prepared concrete floor. A properly prepared surface when dry will immediately absorb clean water without any surface beading effects.
- If required use **Certi-Vex Etch & Efflorescence Remover** to improve sealer penetration.
- Apply Powercoat Epoxy LD according to desired final dry film thickness, Two coats are required. See coverage date/estimating section.
- After application of first coat, a second coat is required. See Second Coat section.

## SECOND COAT

After application of the first coat all Powercoat Epoxy LD applications require a second coat. Typically a second coat is applied when the surface has dried through or 24 hours after first coat. If more than 24 hours has passed, the first coat should be lightly scuffed to assure good intercoat adhesion.

## COVERAGE RATES/ESTIMATING

Apply Powercoat Epoxy LD Water Base at 150-200 sq.ft./gal (3.8-4.9 m<sup>2</sup>/L) depending on desired film thickness and porosity of concrete. Calculated dry film thickness is based on one coat.

<u>Surface</u>	<u>Coverage Rate</u>	<u>Final Film Thickness</u>	
<b><u>Powercoat Primer WB</u></b> Note: After application surface must have an <u>even</u> sheen.			
	<u>First Coat</u>	<u>Second Coat</u>	
Porous	200sq.ft./gal.	300sq.ft./gal.	120 sq.ft./gal. 3 mils (76µm) DFT
	<u>First Coat</u>	<u>Second Coat</u>	
Hard, non-porous	300sq.ft./gal.	400sq.ft./gal.	170 sq.ft./gal. 2 mils (51µm) DFT

## Powercoat Epoxy LD

	<u>First Coat</u>	<u>Second Coat</u>	
Porous	300sq.ft./gal.	300sq.ft./gal.	150sq.ft./gal. 6.5 mils (165µm) DFT
	<u>First Coat</u>	<u>Second Coat</u>	
Hard, Non-porous	400sq.ft./gal.	400sq.ft./gal.	200sq.ft./gal. 5 mils (127µm) DFT

## PACKAGING

### Powercoat Epoxy LD Colored

	<u>Volume</u>	<u># Weight</u>		
Part A	3.54 gal/5 gal pail	36.00	90%	89%
Part B	0.46 gal/1 gal can	4.00	10%	11%

YIELD: 4 gallons

### Powercoat Epoxy LD Clear

	<u>Volume</u>	<u># Weight</u>		
Part A	3.60 gal/5 gal pail	29.84	90%	90%
Part B	.40 gal/1gal can	3.32	10%	10%

YIELD: 4 gallons

When using other containers to measure smaller volumes, the above ratios must be used.

## SPECIFICATIONS/COMPLIANCE

VOC - 192gr/liter or 1.60#/gal

VOC - 150gr/liter or 1.25#/gal

- Meets:
  - USEPA AIM-Industrial Maintenance Coatings
  - OTC- Industrial Maintenance Coatings
  - CARB- Industrial Maintenance Coatings
- LEED NC category/points: For detailed information visit vexcon.com/green.
  - EQ 4.2 – 1 point
  - MR 5.1/5.2 – 1 point
- ASTM C 309 Class A&B, and C 1315, Class B Type 1 and II except for tile adhesion.
- ASTM D2047 and ADA non-slip
- USDA approved
- ASTM-E84 Class A fire rating
- ASTM D1653 3.30 perms DL LABS # 11884-B  
Test reports are available upon request.

## SPECIAL NOTES

To assist in application, please note 200 sq.ft./gal is equal to the thickness of a sheet of paper

- Will tend to show minimal rubber burns
- May enhance mottling of colored surfaces
- Gasoline, oil, jet fuel and chemical resistance develops in 72 hrs after drying
- Surface may darken with application and aging
- Do not apply more material per sq. foot than specified
- If applied outdoors the product may discolor
- Spot resistance to brake fluid, not full immersion
- Maintenance: Clean regularly with StarSeal EF Degreaser & Cleaner
- Store at room temperature
- Do not apply below 40°F (4°C) or above 85°F (29°C)
- Do not induct
- If properly stored in its original sealed containers, one year. Rotate your stock
- For use by experienced applicators

## DRY TIME

- The relative humidity, surface and air temperature will affect dry times.
- High humidity will extend dry times and require positive air flow for adequate drying. This is accomplished with the use of fans, open windows or doors to properly circulate the air.
- Low temperatures will also extend dry times.
- NOTE: Surface temperatures can vary from ambient. Do not apply if surface temperatures are below 60°F or above 85°F.
- Material must be within specified temperature ranges before application.
- **Do not apply second coat until the first coat is dry.** You can test for dryness by pressing tape hard onto the surface. Leave for 5 minutes then remove. If tape is clean the surface is dry.

## HEALTH AND SAFETY

Vexcon MSDS #CP112 is an integral part of the safety and application of our product. A short synopsis is provided in this product data sheet. Before using this Vexcon product obtain a copy of the MSDS from your distributor or by contacting Vexcon Chemicals.

## CONTACT US @

Additional product information, technical assistance and customer service is available by contacting Vexcon Chemicals directly or our distributors.

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