VEXCON CHEMICALS, INC.
Performance Construction Chemicals

POWERCOAT® EPOXY LD WATER BASE

LIGHT DUTY • GAS/OIL RESISTANT • COST EFFECTIVE

VOC Content: 192gr/liter or 1.60 #/gal – Floor Coating - Pigmented
VOC Content: 150 gr/liter or 1.25 #/gal- Floor Coating - Clear

DESCRIPTION

POWERCOAT® EPOXY LD is a two component colored and clear light duty epoxy coating that provides the strength of epoxy in an economical coating that is tough, chemical resistant and long lasting. The presence of moisture will cause epoxys 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. Recommended applications, gas stations, garages, distribution centers, driveways or any concrete surface requiring greater long term wear and staining resistance than a standard cure and seal coating.

BENEFITS

- Available in clear and 17 standard and custom colors See Vexcon Color Systems Chart
- Reduces tire marking
- Excellent protection against water, staining, attack by alkali, oil, gasoline, cleaners, anti-freeze and salt
- Prevents efflorescence, dusting and spalling
- Vexcon's breathable technology
- Low odor
- Interior and exterior applications
- Apply to new and existing concrete
- Can be applied to damp concrete
- Better adhesion and durability than standard cure and seal coatings
- 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 epoxy's, sealers and curing compounds use **Certi-Vex Concrete Stripper**.
- The concrete should be cleaned with **Certi-Vex Super 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**.

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 lot's 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**.**
- 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 **Ceti-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^2L).
- Let the concrete cure a minimum of 24-72 hours before application of Powercoat Epoxy LD.
- Apply Powercoat Epoxy LD 400-500 sq.ft. /gal (10-12.5 m^2/L) on hard non-porous floors and at 250-300 sq.ft. /gal (6.2-7.5 m^2/L on porous floors.
- After application of first coat, a second coat is required. See Second Coat 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 400-500 sq.ft. /gal (10-12.5 m^2/L) on hard non-porous floors and at 250-300 sq.ft. /gal (6.2-7.5 m^2/L on porous floors.
- 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. Apply second coat at 400-500 sq.ft. /gal (10-12.5 m^2/L). The material will dry in less than 4 hours at 72 º F (22ºC).

APPLICATION OVER PREVIOUSLY CURE AND SEALED CONCRETE

If applying over a Vexcon acrylic cure and seal, the surface must be lightly scuffed to assure good intercoat adhesion. Powercoat Epoxy LD can only be applied to existing cure & seals that have a strong un-broken film. The product must have been applied at coverage rates no greater than listed on the product data sheet. If not a Vexcon cure and seal product contact Vexcon.

COVERAGE RATE DRY FILM CALCULATION

Apply Powercoat Epoxy LD 150-250 sq. ft./gal (3.8-6.3 m^2/L) depending on desired film thickness and porosity of concrete. Calculated film thicknesses are based on one coat.

COLOR

FIRST COAT	SECOND COAT
200 sq.ft. /gal. 2.97 MILS DFT	400 sq.ft./gal. 1.48 MILS DFT
300 sq.ft. /gal. 1.98 MILS DFT	500 sq.ft./gal. 1.19 MILS DFT

CLEAR

FIRST COAT	SECOND COAT
200sq.ft. /gal. 1.92 MILS DFT	400sq.ft. /gal. .96 MILS DFT
300sq.ft. /gal. 1.28 MILS DFT	500sq.ft. /gal. .77 MILS DFT

SPECIFICATIONS/COMPLIANCE

- 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
- Meets USEPA AIM and OTC VOC regulations
- Meets LEED point standards for green building

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 Certi-Vex Super Degreaser & Cleaner
- Store at room temperature
- Do not apply below 40ºF (4º C) or above 85ºF (29º C)
- If properly stored in it's original sealed containers, one year. Rotate your stock
- For use by experienced applicators

VITAL STATISTICS

- Flash Point (TCC) 212º F (41ºC)
- Extinguishing Media Foams, Dry Chemical, $C0_2$,

Water may be used to reduce the rate of burning and for cooling containers.

PACKAGING

Powercoat Epoxy LD Colored

	Volume	# Weight		
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 of finished coating

Powercoat Epoxy LD Clear

	Volume	# Weight		
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.

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	61% by volume, 72% by weight	

Note: Dry time and curing time depends on air temperature and film thickness. All calculations based upon 68-77 º F (20-25ºC). Low temperatures and relative humidity will extend dry time. **Do not apply second coat until the first coat 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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