POWERCOAT® EPOXY LD WB

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

DESCRIPTION

POWERCOAT® EPOXY LD WB 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 free standing water.
- Large cracks should be repaired using Powercoat Epoxy Flexible Joint Sealant.

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 m²/L).
• Let the concrete cure a minimum of 24-72 hours before application of Powercoat Epoxy LD WB.
• Apply Powercoat Epoxy LD WB according to the desired final dry film thickness. Two coats are required. See coverage rate/estimating section.

APPLICATION

• New concrete surfaces must be primed with PowerCoat Primer WB.
• 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. Do not induct. 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 industrial paint sprayer, lambs wool applicator or roller.
• Apply by sprayer which is designed for 2 component epoxy or urethane coatings. See Technical Note TN170 for recommendations, available at vexcon.com.
• Do not use pump up or light duty sprayer designed for low viscosity coatings.
• For best results use Vexcon’s EvenFlow Applicator or ¼” nap solvent resistant mohair roller. Use a roller pan to take off excess product. Do not dip & roll, or pour & 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.

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 WB according to desired final dry film thickness. Two coats are required. See coverage rate/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 WB 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 WB at 150-200 sq.ft./gal (3.8-4.9 m²/L) depending on desired film thickness and porosity of concrete. Calculated dry film thickness is based on one coat.

<table>
<thead>
<tr>
<th>Surface</th>
<th>Coverage Rate</th>
<th>Final Film Thickness</th>
</tr>
</thead>
<tbody>
<tr>
<td>Powercoat Primer WB</td>
<td>Note: After application surface must have an even sheen.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>First Coat</td>
<td>Second Coated</td>
</tr>
<tr>
<td>Porous</td>
<td>200 sq.ft./gal</td>
<td>300 sq.ft./gal</td>
</tr>
<tr>
<td>Hard, non-porous</td>
<td>300 sq.ft./gal</td>
<td>400 sq.ft./gal</td>
</tr>
<tr>
<td>Powercoat Epoxy LD WB</td>
<td>First Coat</td>
<td>Second Coated</td>
</tr>
<tr>
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<td>300 sq.ft./gal</td>
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</tr>
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<td>Hard, non-porous</td>
<td>400 sq.ft./gal</td>
<td>400 sq.ft./gal</td>
</tr>
</tbody>
</table>

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. Coats are typically dry to touch in 6 hours.

PHYSICAL PROPERTIES
- Dry: Tack free
- 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

PACKAGING
Powercoat Epoxy LD WB Colored/Pigmented

<table>
<thead>
<tr>
<th>Mixing Ratios</th>
<th>Gallons</th>
<th>Pounds</th>
<th>Wt. %</th>
<th>Vol %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part A Color</td>
<td>3.52 gal in 5-gal pail</td>
<td>35.87</td>
<td>90%</td>
<td>88%</td>
</tr>
<tr>
<td>Part B Color</td>
<td>0.48 gal in 1-gal can</td>
<td>3.99</td>
<td>10%</td>
<td>12%</td>
</tr>
<tr>
<td>Totals / Yield</td>
<td>4 gal</td>
<td>39.86 lbs</td>
<td>100%</td>
<td>100%</td>
</tr>
</tbody>
</table>

Powercoat Epoxy LD WB Clear

<table>
<thead>
<tr>
<th>Mixing Ratios</th>
<th>Gallons</th>
<th>Pounds</th>
<th>Wt. %</th>
<th>Vol %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part A Clear</td>
<td>3.60 gal in 5-gal pail</td>
<td>30.16</td>
<td>90%</td>
<td>90%</td>
</tr>
<tr>
<td>Part B Clear</td>
<td>0.40 gal in 1-gal can</td>
<td>3.36</td>
<td>10%</td>
<td>10%</td>
</tr>
<tr>
<td>Totals / Yield</td>
<td>4 gal</td>
<td>33.52 lbs</td>
<td>100%</td>
<td>100%</td>
</tr>
</tbody>
</table>

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

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 visit vexcon.com.

SPECIFICATIONS/COMPLIANCE
- VOC <250 grams/liter or <2.09 lb/gal
- Meets:
  - US EPA AIM, OTC. LADCO/MRPO, CEPA/EC and CARB - Industrial Maintenance Coatings
  - LEED NC category/points: For detailed information visit vexcon.com/green.
  - ASTM C 109 Class A&B, and C 1315, Class B Type I 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

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 motting 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). When temperatures are outside this range review Vexcon’s Hot and Cold Weather Application Guides, available at vexcon.com.
- Do not induct.
- Shelf Life: If properly stored in its original sealed containers, one year. Rotate your stock.
- Storage/Handling: Store in tightly sealed original factory container. Keep from freezing and exposure to moisture. Store at room temperature prior to use. Care should be taken to keep dirt, water and contaminants away from the opening of containers.
- Delivery: Deliver materials to site in manufacturer’s original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.
- For use by experienced applicators
- Proper application of Vexcon material is the responsibility of the installer or user. Telephone consultation and/or field visits by Vexcon personnel are for the sole purpose of making technical recommendations only, and not for providing quality control or supervision on location.

CONTACT US @
Additional product information, technical assistance and customer service is available by contacting Vexcon Chemicals directly or our distributors.
- vexcon.com
- techservice@vexcon.com
- customerservice@vexcon.com
- sales@vexcon.com
- Voice: 888.839.2661
- Fax: 215.332.9997

WARRANTY
LIMITED WARRANTY: Vexcon warrants for a period of one (1) year from the date of manufacture that the goods supplied hereunder shall be of its standard quality and free of defects, and conforms to (a) Vexcon’s published specifications in force on the date of acceptance by Vexcon of the order and (b) the sample which has been made available for testing by buyer prior to sale. Any claim under this warranty must be made in writing to Vexcon Chemicals within sixty (60) days after such non-conformity is first discovered. As the EXCLUSIVE REMEDY for any breach of this Limited Warranty, Vexcon at its option shall replace nonconforming goods or refund the purchase price. Since methods of application, use and testing are beyond Vexcon’s control, this Limited Warranty is in lieu of all other warranties, express or implied, to the extent prohibited by law. This Limited Warranty is also in lieu of any other possible liabilities of Vexcon, whether alleged to arise by Agreement or by Operation of Law, respecting the sale, application, use or function of Vexcon’s Products, including but not limited to claims of negligence, gross negligence, misuse, storage damage, misapplication, accident, strict liability or any other tort. No person is authorized by Vexcon to assume for it any other liability of any kind in connection with the sale or use of products manufactured and sold by it, and there are no oral agreements or warranties collateral to or affecting any sale or use. All of the foregoing arises under the substantive law of Pennsylvania without regard to principles of conflict of laws.