POWERCOAT® EPOXY LD FT

**DESCRIPTION**

POWERCOAT EPOXY LD FAST TRACK is a two component colored and clear light duty fast drying 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 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. 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
- Fast drying
- 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.
- 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 thiner. 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, 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 Ceti-Vex Tale Release until all construction work is completed.
- Clean application equipment daily with Ceti-Vex Equipment Cleaner, and then flush with water.
- To improve non-slip profile use Ceti-Vex Non-Slip Epoxy Additive.
- For a unique and custom floor use Ceti-Vex Deco Chips.

**CURING AND SEALING NEW CONCRETE**

- Apply Powercoat Primer 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 FT.
- Apply Powercoat Epoxy LD FT 400-500 sq.ft. /gal (10-12.5 m²/L) on hard non-porous floors and at 250-300 sq.ft. /gal (6.2-7.5 m²/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 permeable 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 FT 400-500 sq. ft./gal (10-12.5 m²/L) on hard non-porous floors and at 250-300 sq. ft./gal (6.2-7.5 m²/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 FT 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 m²/L). The material will dry in less than 4 hours at 72°F (22°C).

APPLICATION OVER PREVIOUSLY CURED 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 FT 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

We recommend a final film thickness of 150-250 sq. ft./gal (3.8-6.2 m²/L). Apply first and second coat depending on desired final film thickness and porosity of concrete according to chart below.

<table>
<thead>
<tr>
<th>COLOR</th>
<th>FIRST COAT</th>
<th>SECOND COAT</th>
<th>FINAL FILM THICKNESS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>300 sq. ft./gal.</td>
<td>300 sq. ft./gal.</td>
<td>150 sq. ft./gal. 4.27 mils DFT</td>
</tr>
<tr>
<td></td>
<td>500 sq. ft./gal.</td>
<td>500 sq. ft./gal.</td>
<td>250 sq. ft./gal. 2.56 mils DFT</td>
</tr>
</tbody>
</table>

SPECIFICATIONS/COMPLIANCE

- VOC <340 grams/liter or <2.83 #/gal
- Meets
  - US EPA AIM- Industrial Maintenance Coatings
  - OTC- Industrial Maintenance Coatings
  - LADCO/MRPO- Industrial Maintenance Coatings
  - CEPA/EC- Industrial Maintenance Coatings
  - 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 #11844-B

TEST REPORTS ARE AVAILABLE UPON REQUEST

VITAL STATISTICS

- Flash Point (TCC) 14°F TCC -17°C TCC
- Boiling Point (760 mmHg) 133°F (56°C)
- Auto ignition Temp 869°F (465°C)
- Extinguishing Media Foams, Dry Chemical, CO₂

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

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
- 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.
- Spot resistance to brake fluid, not full immersion
- Maintenance: Clean regularly with Certi-Vex Super Degreaser & Cleaner
- 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.

PACKAGING

Powercoat Epoxy LD FT Colored

<table>
<thead>
<tr>
<th>Volume # Weight</th>
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</thead>
<tbody>
<tr>
<td>Part A 3.54 gal / 5 gal pail 34.02 90% 89%</td>
</tr>
<tr>
<td>Part B 0.46 gal / 1 gal can 3.78 10% 11%</td>
</tr>
<tr>
<td>Solids 48% by volume, 53% by weight</td>
</tr>
<tr>
<td>YIELD: 4 gallons of finished coating</td>
</tr>
</tbody>
</table>

Powercoat Epoxy LD FT Clear

<table>
<thead>
<tr>
<th>Volume # Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part A 1.96 gal / 5 gal pail 15.75 51% 49%</td>
</tr>
<tr>
<td>Part B 2.04 gal / 3 gal can 15.13 49% 51%</td>
</tr>
<tr>
<td>Solids 44% by volume, 48% by weight</td>
</tr>
<tr>
<td>YIELD: 4 gallons of finished coating</td>
</tr>
</tbody>
</table>

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

PHYSICAL PROPERTIES

- Dry Tack free
- Curing time Foot traffic Overnight
- Curing time Gasoline resistance 72 hours
- Curing time Heavy vehicle traffic One week
- Solids 48% by volume, 53% by weight

Note: Dry time and curing time depends on air temperature and film thickness. All calculations based upon 68-77°F (20-25°C). 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 CP105 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.

CONTACT US @

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

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