



**VEXCON**  
CHEMICALS, INC.

Concrete solutions for architects, engineers and builders since 1974  
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## POWERCOAT® EPOXY HD *“Don't say Epoxy- say PowerCoat”®*

**HEAVY DUTY • CHEMICAL RESISTANT • DURABLE**

### DESCRIPTION

**POWERCOAT EPOXY HD** is a premium heavy duty breathable epoxy coating that provides durability, abrasion and excellent chemical resistance and adhesion for the most demanding environments.

Independent lab testing has shown that the product affords hardness and abrasion resistance comparable to typical 16-50 mil systems. PowerCoat Epoxy features PowerCoat breathable technology which is designed to eliminate adhesion failure of associated with epoxy and polyurethane coatings due to moisture in concrete. PowerCoat breathable technology allows moisture vapor to pass through preventing blistering and peeling. Independent tests verify that PowerCoat has 3.30 perms rating, truly an epoxy that breathes. PowerCoat is guaranteed to reduce 27.0# Calcium Chloride test to below 3.0#/1000 sq.ft./24hrs.

PowerCoat Epoxy provides a coating barrier against physical abrasion, corrosion, and commonly encountered acid and alkali chemicals. It also resists gasoline, brake fluids, solvents, salts and some alcohols.

### BENEFITS

- Available in clear gloss and semi-gloss/matte, 19 standard and custom colors. See Vexcon Color Systems brochure.
- Best chemical resistance including acids, alkalis, solvents and salts
- Vexcon's breathable technology
- Maximum hardness and adhesion
- Waterproofs and protects
- Cures with minimum shrinkage or loss in film thickness
- Performance warranty
- Apply to fresh concrete for fast track project completion
- Attractive seamless floor

### RECOMMENDED FOR

Recommended for commercial, industrial, transportation and other areas that require a durable and chemical resistant coating.

### SPECIFICATIONS/COMPLIANCE

- VOC: Clear <400 grams/liter or <3.33 #/gal
- VOC Pigmented <340 grams/liter or <2.83 #/gal
- Meets- Clear
  - US EPA AIM- Industrial maintenance Coatings
- Meets- Pigmented
  - US EPA AIM- Industrial Maintenance Coatings
  - OTC- Industrial Maintenance Coatings
  - LADCO/ MRPO- Industrial Maintenance Coatings
  - Canada- Industrial Maintenance Coatings
- USDA requirements for paints and coatings for use in federally inspected meat and poultry plants.
- Class A fire rating ASTM E84
- OSHA / ADA non-slip requirement testing ASTM D2047
- CSI 09 96 00- High Performance Coatings

### APPLICATION

- Surfaces must be primed with **PowerCoat Primer**, and should be allowed to dry for at least 4 hours for existing and 72 hours for new concrete prior to application of PowerCoat Epoxy HD.
- Large cracks should be repaired using **PowerCoat Epoxy Flexible Joint Sealant**.
- Prior to use pre-condition material to between 65°F (18°C) and 75°F (24°C).
- The coating 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 until uniform in consistency. When this is done, mix part B into part A, and mix thoroughly until uniform.
- After thoroughly mixing, allow the mixed product to stand undisturbed for a 30-minute induction period before applying. Low temperatures require longer induction; temperature above 80°F., less induction.
- 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 different lots are used, apply a final thin coat to the entire area.
- Apply by industrial paint sprayer, lambs wool applicator or roller. If applying by roller for best results use ¼" nap mohair solvent 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.
- The mixed material has a pot life of approximately 4 to 6 hours.
- **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.**
- To protect your PowerCoat floor from ongoing construction dust, dirt, and debris, use **Certi-Vex® Talc Release** until construction is completed.
- Clean application equipment daily with **Certi-Vex Equipment Cleaner**.
- To improve non-slip profile, use **Certi-Vex Grip** or **PowerCoat Epoxy Non-Slip Additive**.
- For a unique and custom floor, use **Certi-Vex Deco Chips**.

### COVERAGE RATES/ESTIMATING

Apply PowerCoat Primer at 200-300 sq ft/gal. **Note:** After application, surface must have an even sheen. If sheen is uneven or patchy, apply a second coat of Primer at 300 sq ft/gal.

Estimate PowerCoat Epoxy HD at 150-250 sq.ft./gal. (3.8-6.3 m<sup>2</sup>/L) depending on desired film thickness and porosity of concrete. Actual application is in two thin coats, not one thick coat. Calculated final dry film thickness is based on two coats.

#### • **PowerCoat Primer**

	25% solids	First Coat	Second Coat (If needed)	Final Coverage Dry Film Thickness
Porous		200 sqft/gal 8 mils WFT	300 sqft/gal 5.3 mils WFT	125 sqft/gal 3.2 mils / 81µm DFT
Hard,		300 sqft/gal	400 sqft/gal	175 sqft/gal
Non-porous		5.3 mils WFT	4 mils WFT	2.3 mils / 58µm DFT

#### • **PowerCoat Epoxy HD**

	61% solids vol.	First Coat	Second Coat	Final Coverage Dry Film Thickness
Porous		300 sqft/gal 5.3 mils WFT	300 sqft/gal 5.3 mils WFT	150 sqft/gal 6.4 mils / 162µm DFT
Hard,		400 sqft/gal	400 sqft/gal	200 sqft/gal
Non-porous		4 mils WFT	4 mils WFT	4.8 mils / 123 µm DFT
Hard, Non-porous		500 sqft/gal 3.2 mils WFT	500 sqft/gal 3.2 mils WFT	250 sqft/gal 3.9 mils / 99 µm DFT

