



**VEXCON**  
CHEMICALS, INC.

Protecting and improving concrete since 1974

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## POWERCOAT<sup>®</sup> EPOXY DECORATIVE *“Don't say Epoxy- say PowerCoat<sup>™</sup>”*

**DURABLE • CHEMICAL RESISTANT • NON YELLOWING**

### DESCRIPTION

**POWERCOAT EPOXY DECORATIVE** provides a crystal clear or colored, non-yellowing coating that enhances, beautifies and protects a wide variety of exterior concrete surfaces. PowerCoat has excellent resistance to staining and many chemicals. Superior hardness and abrasion resistance allow the coating to withstand heavy use and extreme weather. Independent lab testing has shown that the product affords hardness and abrasion resistance comparable to typical 15-50 mil epoxy systems. When used with PowerCoat Primer as a cure and primer, PowerCoat Epoxy can be applied to new concrete surfaces allowing for rapid project completion.

PowerCoat is designed to eliminate the failures of adhesion associated with epoxy and polyurethane coatings due to moisture in concrete. PowerCoat breathable technology allows moisture vapor to pass through rather than being trapped, preventing blistering, cracking and peeling. Independent tests verify that PowerCoat Epoxy has 3.30 perms rating, truly an epoxy that breathes.

### BENEFITS

- Exceptional gloss and color retention
- Available in clear gloss and semi-gloss/matte, 19 standard and custom colors. See Vexcon Color Systems Chart.
- Protect and beautify a wide variety of surfaces
- Non-yellowing
- Apply to new concrete for fast track project completion
- Provides excellent adhesion, flexibility, durability, and resistance to impact and abrasion
- Cures with minimum shrinkage or loss in film thickness
- Waterproof
- Vexcon's breathable technology

### 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 Decorative.
- Hairline cracks, repair using **PowerCoat Epoxy Joint Sealant**.
- 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.
- 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 two 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 Vexcon's **EvenFlow Applicator** or 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**, then flush with water.
- To improve non-slip profile use **Certi-Vex Grip** or **Certi-Vex Epoxy Non-Slip Additive**.
- For a unique and custom floor use **Certi-Vex Deco Chips**.

### SPECIAL NOTES

- Powercoat Epoxy Decorative has splash and immersion resistance to many chemicals and can be used in areas where splashed materials will be removed in reasonable times, usually 4-24 hours. For immersion test information, see other side. Do not use in constant immersion applications without consulting with Vexcon if chemical is not on list.
- Do not apply below 60° F (15° C) or above 85° F (29° C)
- Do not apply more than one coat without proper surface preparation including surface abrasion after full cure.
- Do not use spiked shoes during application.
- A second coat can be applied after 6 hours and within 48 hours without abrading the surface.
- For use by experienced applicators
- Maintenance: Clean regularly with Certi-Vex Super Degreaser & Cleaner.
- Store at room temperature.
- Shelf Life: If properly stored in its original sealed container, one year. Rotate your stock.
- 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.

## COVERAGE RATES/ESTIMATING

Apply at 150-250 sq. ft./gal (2.5-3.8 m<sup>2</sup>/L) depending on desired film thickness.

### • Powercoat Primer

| Surface         | First Coat    | Second Coat   | Dry Film        |
|-----------------|---------------|---------------|-----------------|
| Porous          | 200sq.ft./gal | 300sq.ft./gal | 120 sq.ft./gal  |
|                 |               |               | 3 mils (76µm)   |
| Hard, Nonporous | 300sq.ft./gal | 400sq.ft./gal | 170 sq.ft./gal. |
|                 |               |               | 2 mils (51µm)   |

Note: After application, Primer must have an even sheen.

### • Powercoat Epoxy Decorative

| Surface         | First Coat      | Second Coat     | Dry Film        |
|-----------------|-----------------|-----------------|-----------------|
| Porous          | 300 sq.ft./gal. | 300sq.ft./gal.  | 150 sq.ft./gal  |
|                 |                 |                 | 6.5mils(165µ)   |
| Hard, Nonporous | 400 sq.ft./gal. | 400sq.ft./gal.  | 200 sq.ft./gal. |
|                 |                 |                 | 4.9mils(125µ)   |
| Hard, Nonporous | 500 sq.ft./gal. | 500 sq.ft./gal. | 250 sq.ft./gal  |
|                 |                 |                 | 3.9 mils(99µ)   |

## PHYSICAL PROPERTIES

- Dry-Tack Free Less than 6 hours
- Curing Time Foot Traffic 24 hours
- Curing Time Vehicle Traffic One week
- Solids Color 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 ° F (20-25°C). Low temperatures and relative humidity will extend dry time.

## IMMERSION TESTING

PowerCoat Epoxy Decorative can be immersed in the following chemicals. Care must be taken that coverage rates are as listed above and that there are no pinholes or voids in the coating. Two coats of PowerCoat Epoxy Decorative @ 150 sq. ft./gallon are recommended.

| CHEMICAL                      | 30 DAY RATING                             |
|-------------------------------|---|
| Sulfuric Acid 98%             | Discoloration / No blister or degradation |
| Caustic (NaOH) 25%            | No Effect                                 |
| Sodium Chloride 25% No Effect |   |
| Xylene                        | Loss of Gloss / no blisters or peeling    |
| Anti Freeze Ethylene Glycol   | No Effect                                 |
| Gasohol                       | No Effect                                 |
| Muriatic Acid 15%             | No Effect                                 |
| Water                         | No Effect                                 |
| Skydrol 500B-4                | No Effect                                 |
| Brake Fluid                   | Loss of Gloss                             |
| Acetone                       | Loss of Gloss                             |

For other chemical resistance, contact Vexcon Chemicals.

## PACKAGING

| Epoxy Decorative<br>4 gal units | Pack Volume | Pack Container | Mix Weight |
|---------------------------------|-------------|----------------|------------|
| <b>CLEAR</b>                    |             |                |            |
| Part A                          | 3.05 gal    | 5 gal pail     | 77%        |
| Part B resin                    | .95 gal     | 1 gal pail     | 23%        |
| <b>PIGMENTED</b>                |             |                |            |
| Part A                          | 3.2 gal     | 5 gal pail     | 79%        |
| Part B resin                    | .8 gal      | 1 gal pail     | 21%        |

**YIELD:** 4 gallons of finished coating.

When mixing smaller quantities, the above ratios must be used.

## SPECIFICATIONS/COMPLIANCE

VOC – 448 grams/liter or 3.74#/gal (Clear)  
VOC – 440 grams/liter or 3.67#/gal (Pigmented)

- Meets:
    - USEPA AIM-Industrial Maintenance Coatings
    - OTC- Industrial Maintenance Coatings
  - ASTM E 84 Standard Test Method for Surface Burning Characteristics of Building Materials. **Class A fire rating.**
  - ASTM D 4541 Standard Test Method for Pull-Off Strength of Coatings Using Portable Adhesion Testers. **Primed 395, Unprimed 350. All failures cohesive/substrate.**
  - ASTM D 2047 Standard Test Method for Static Coefficient of Friction of Coated Flooring Surface as Measured by the James Machine. **Non-slip. Clear .70, Non-Slip >1.20**
  - ASTM G 53 Standard Practice for Operating Light-and Water Exposure Apparatus (Fluorescent UV-Condensation Type) for Exposure of Nonmetallic Materials. **Weathering 200 hours, no chalking, no delamination, no deleterious effects, discoloration 200% better than control.**
  - ASTM D 2240 Standard Test Method for Rubber Property-Durometer Hardness. **Shore A 95-96°, Shore D 84-87°**
  - ASTM D 3363 Standard Test Method for Film Hardness by Pencil Test. **3H**
  - ASTM D 4060 Standard Test Method for Abrasion Resistance of Organic Coatings by the Taber Abrader. **0.22 grams, 0.8% loss per 1000 rev. C17 wheel, 1000 grams, 1000 revolutions.**
  - ASTM D 523 Standard Test Method for Specular Gloss. **90°**
  - ASTM F 1869 Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Sub-floor Using Anhydrous Calcium Chloride. **Reduces 27# to below 3#.**
  - ASTM D 1653 Standard Test Methods for Water Vapor Transmission of Organic Coating Films. **3.3 perms**
  - ASTM C 309 Standard Specification for Membrane Forming Curing Compounds. **Exceeds.**
  - ASTM C 1315 Standard Specification for Liquid Membrane Forming Compounds having Special Properties for Curing and Sealing Concrete. **Exceeds.**
  - ASTM D 2369 Standard Test Method for Volatile Content of Coatings. **Clear 448 g/L; Pigmented 440 g/L**
  - ASTM B 117 Salt Spray Scribed and ASTM D 714 Unscribed. **Excellent, no effect.**
  - Federal Specification TT C 535 B Sec 3.4.10 Steam Resistance @ 207 F: **Scribed, no effect: no blistering, discoloration, loss of gloss, or film hardness.**
  - USDA requirements for paints and coatings for use in federally inspected meat and poultry plants. **Approved under FSIS Directive 11.000.4.**
- For test reports, contact Vexcon directly.**

## HEALTH AND SAFETY

Vexcon MSDS #CP113 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 services are available by contacting Vexcon Chemicals directly, or our distributors.

- [www.vexcon.com](http://www.vexcon.com)
- [sales@vexcon.com](mailto:sales@vexcon.com)
- [technicalservice@vexcon.com](mailto:technicalservice@vexcon.com)
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## WARRANTY

Vexcon warrants that the goods supplied hereunder shall be of its standard quality and shall conform in all material respects to the sample which has been made available for testing by buyer prior to sale. As the EXCLUSIVE REMEDY for any breach of this Limited Warranty, Vexcon shall replace nonconforming goods or refund the purchase price. Since methods of use and application are beyond Vexcon's control, this Limited Warranty IS IN LIEU OF ALL OTHER WARRANTIES EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THOSE CONCERNING MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. 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 OR NEGLIGENCE, GROSS NEGLIGENCE, STRICT LIABILITY OR ANY OTHER TORT. IN NO EVENT SHALL VEXCON BE LIABLE FOR PERSONAL INJURY OR PROPERTY DAMAGE, REAL OR PERSONAL, ATTRIBUTED TO ITS PRODUCTS, NOR FOR ANY EXCAVATION, REMOVAL, REAPPLICATION, DOWN TIMES, CLEANUP, LOSS OF USE, LOSS OF OPPORTUNITY, LOSS OF MARKET VALUE, LOSS OF RENTAL VALUE OR FOR ANY LOSS OF PROFITS OR OTHER SPECIAL, INCIDENTAL, RESULTING, CONSEQUENTIAL OR EXEMPLARY DAMAGES.

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