**POWERCOAT® EPOXY HD WB**

**DESCRIPTION**

POWERCOAT EPOXY HD WB is our top of the line, water-based, two-component, clear and colored, heavy duty epoxy coating. The product provides a tough and extremely durable coating with excellent adhesion, flexibility, as well as maximum impact, abrasion, and chemical resistance. Independent lab testing shows that the product affords hardness and abrasion resistance comparable to high build systems.

PowerCoat Epoxy WB features PowerCoat Breathable Technology for long-term prevention of blistering and peeling. The PowerCoat system is designed to eliminate the failures associated with epoxy and polyurethane coatings due to moisture in concrete. 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. PowerCoat is guaranteed to reduce moisture vapor emissions (MVER) from as high as 27#/per ASTM F-1869 calcium chloride test results to below 3.0#/sq.ft./24hrs.

PowerCoat Epoxy WB and Primer can be applied to fresh concrete for fast track project completion and provides a coating barrier against physical abrasion, corrosion, and commonly encountered acid and alkali chemicals. It also resists solvents such as gasoline, brake fluid, solvents, salts and some alcohols.

**APPLICATION**

- Surfaces must be primed with PowerCoat Primer WB, 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 WB.
- 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. This product is supplied at the proper consistency and dilution will reduce efficiency.
- Do Not Induct.
- 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.
- 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 motif 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 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® Tale Release until construction is completed.
- Clean application equipment daily with Certi-Vex Equipment Cleaner.
- To improve non-slip profile, use Certi-Vex Grip or Certi-Vex Non-Slip Additive.
- For a unique and custom floor, use Certi-Vex Deco Chips.

**SPECIFICATIONS/COMPLIANCE**

- VOC: <200 grams/liter or <1.66 #/gal (Clear & Pigmented)
- Meets US EPA AIM, OTC, LADCO/MRPO, CEPA/EC and CARB- Industrial Maintenance Coatings
- LEED NC category: For detailed information visit vexcon.com/green.
- EQ 4.2 – 1 point
- MR 5.1/5.2 – 1 point
- USDA requirements for paints and coatings for use in federally inspected meat and poultry plants.
- Chemical resistance, see TN168, available on the web at vexcon.com/ Product Resources/ Technical Notes.
- CSI 09 96 00- High Performance Coatings

**STORAGE**

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- If using a roller, do not overwork the material. Coat in one lapping direction only; overworked material can affect 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® Tale Release until construction is completed.
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**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 temperature ranges prior to application.
- Do not apply second coat until the first coat is dry. Test for dryness by pressing tape hard onto the surface. Leave for 5 minutes, remove. If tape is clean, the surface is dry.
- Tack Free Less than 6 hours
- Curing time - Foot traffic 24 hours
- Curing time - Vehicle traffic One week
**POWERCOAT EPOXY HD WB**

**COVERAGE RATES/ESTIMATING**

Apply PowerCoat Primer WB 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 WB at 150-250 sq ft/gal. (3.8-6.3 m²/l) depending on desired film thickness and porosity of concrete. Actual application is two thin coats, not one thick coat. Calculated final dry film thickness is based on two coats.

- **PowerCoat Primer WB**
  - 25% solids
    - First Coat: 200 sq ft/gal, 8 Wt Mls
    - Second Coat: 300 sq ft/gal, 5.3 mls WFT
    - Final Coverage: 125 sq ft/gal, 3.2 mls / 81µm DFT
  - Hard, Non-porous: 300 sq ft/gal, 5 mls WFT
    - First Coat: 400 sq ft/gal, 4 mls WFT
    - Second Coat: 400 sq ft/gal, 4 mls WFT
    - Final Coverage: 175 sq ft/gal, 2.3 mls / 58µm DFT

- **PowerCoat Epoxy HD WB**
  - 61% solids vol.
    - First Coat: 300 sq ft/gal, 5.3 mls WFT
    - Second Coat: 300 sq ft/gal, 5.3 mls WFT
    - Final Coverage: 150 sq ft/gal, 6.4 mls / 162 µm DFT
  - Hard, Non-porous: 400 sq ft/gal, 4 mls WFT
    - First Coat: 200 sq ft/gal, 4.8 mls / 123 µm DFT
    - Second Coat: 200 sq ft/gal, 4.8 mls / 123 µm DFT
    - Final Coverage: 250 sq ft/gal, 3.9 mls / 99 µm DFT

**SPECIAL NOTES**

- PowerCoat Epoxy HD WB 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 TN168. If chemical is not on list, do not use in constant immersion applications without contacting Vexcon.
- Do not apply below 60°F (15°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 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 ablating the surface.
- Maintenance-clean regularly with StarSeal® EF Degreaser & Cleaner.
- For use by experienced contractors only.
- A semi-gloss/matte finish will develop in 7 days if using clear semi-gloss matte PowerCoat HD WB.
- Shelf Life: If properly stored in its original sealed containers, one year from date of manufacture. Store 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.
- 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.

**HEALTH AND SAFETY**

Vexcon MSDS #CP110 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.

**PHYSICAL PROPERTIES**

- Solids: 60% by volume – Clear
- Dry film thickness: 3.2 mils WFT
- YIELD: 4 gallons of finished coating. When using other containers to measure smaller volumes, the above ratios must be used.

**INDEPENDENT TEST REPORT SUMMARY**

- **PowerCoat Primer WB**
  - First Coat: 15.16 lbs, 1.8 gal
  - Second Coat: 20.10 lbs, 2.2 gal
  - Final Coverage: 35.26 lbs, 4.0 gal
- **PowerCoat Epoxy HD WB**
  - First Coat: 21.19 lbs, 2.2 gal
  - Second Coat: 15.98 lbs, 1.8 gal
  - Final Coverage: 37.17 lbs, 4.0 gal

**CONTACT US**

Additional product information, technical assistance and customer services are 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**

LIMTED WARRANTY: Vexcon warrants for a period of one (1) year from the date of manufacture that the goods supplied hereunder shall be of the same 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 shall be limited to the purchase price of purchased products. No suit shall be brought against Vexcon because of any latent defects, or for any consequential or incidental damages.

LIMITATION OF LIABILITY: IN ALL EVENTS VEXCON’S LIABILITY SHALL BE LIMITED TO THE PURCHASE PRICE OF PURCHASED PRODUCTS. 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, CLAIMS, LOSSES OF USE, LOSS OF OPPORTUNITY, LOSS OF MARKET VALUE, LOSS OF RENTAL VALUE OR FOR ANY LOSS OF PROFITS OR OTHER SPECIAL, INCIDENTAL, CONSEQUENTIAL, EXEMPLARY OR EXEMPLARY DAMAGES.