



**VEXCON**  
CHEMICALS, INC.

Protecting and improving concrete since 1974

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## POWERCOAT® UV+ HD

FAST DRY • URETHANE • BREATHABLE • NON YELLOWING • HEAVY DUTY

### DESCRIPTION

**POWERCOAT UV + HD** combines the improved abrasion resistance of a urethane coating with Vexcon's Powercoat breathable technology. This heavy duty coating is ideal for high use applications requiring exterior UV protection and extremely fast drying. Powercoat UV+ HD provides a coating barrier against physical abrasion, corrosion and commonly encountered acid and alkali chemicals. It also resists solvents such as gasoline, brake fluid, and alcohols.

Powercoat breathable technology allows moisture vapor to pass through rather than becoming trapped, this prevents blistering and peeling.

### BENEFITS

- Excellent gloss and color retention
- Waterproofs and protects
- Retains over 99% of its gloss after 1500 hrs of UV testing
- Vexcon's Powercoat breathable technology
- Eliminates adhesion failures normally encountered with polyurethane coatings on concrete
- Can be applied to fresh/green or damp concrete for quick return to service when used with Vexcon's **Powercoat Primer**, a ready to use cure and prime product
- Available in clear gloss and semi-gloss/matte, 19 standard and custom colors. See Vexcon Color Systems Chart

### RECOMMENDED FOR

Exterior high traffic concrete applications where chemical and stain resistance, quick return to service and non-yellowing are important.

### SPECIFICATIONS/COMPLIANCE

VOC – 340 grams/liter or 2.84#/gal (Clear)

VOC – 340 grams/liter or 2.84#/gal (Pigmented)

- Meets:
  - USEPA AIM-Industrial Maintenance Coatings
  - OTC- Industrial Maintenance Coatings
- ASTM G 53 Standard practice for UV exposure
- USDA requirements for paints and coatings for use in federally inspected meat and poultry plants.
- CSI 09 96 00 High-Performance Coatings

### APPLICATION

- Large cracks, repair using **Powercoat Epoxy Joint Sealant**.
- When used on bare concrete Powercoat Primer must be applied following the directions in product data sheet #CP101. The primer must be allowed to dry for at least 4 hours prior to application of Powercoat UV+ HD.
- 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.
- The product is supplied at the proper consistency for spraying 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 and roll or pour and 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 3 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.**
- Clean application equipment daily with **Certi-Vex Equipment Cleaner**.

### 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 50°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.

## COVERAGE RATES/ESTIMATING

Apply at 100 -150 sq. ft./gal (2.5-3.8 m<sup>2</sup>/L) depending on desired film thickness. Calculated dry film thickness is based on one coat.

<u>Surface</u>	<u>Coverage Rate</u>	<u>Final Film Thickness</u>
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### • Powercoat Primer

Note: After application surface must have an even sheen.

	<u>First Coat</u>	<u>Second Coat</u>	
Porous	200sq.ft./gal.	300sq.ft./gal.	120 sq.ft./gal. 3 mils (76µm) DFT
Hard, Non-porous	300sq.ft./gal.	400sq.ft./gal.	170 sq.ft./gal. 2 mils (51µm) DFT

### • Powercoat UV+ HD

	<u>First Coat</u>	<u>Second Coat</u>	
Porous	300sq.ft./gal.	300sq.ft./gal.	150sq.ft./gal. 6.5 mils (165 µm) DFT
Hard, Non- Porous	400sq.ft./gal.	400sq.ft./gal.	200sq.ft./gal. 4.9 mils (124 µm) DFT
Hard, Non-Porous	500sq.ft./gal.	500sq.ft./gal.	250sq.ft./gal. 3.9 mils (99 µm) DFT

## GLOSS TESTING

### 1500 HOURS

Initial Gloss: 60<sup>0</sup> -103  
Final Gloss: 60<sup>0</sup> -103

### APHA COLOR

Initial: <5  
Final: <50

## PHYSICAL PROPERTIES

- Dry-Tack Free: Less than 6 hours
- Curing Time: 24 hours
- Full curing: One week
- Solids 61% by volume, 72% by weight

Note: Dry 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.**

## MAINTENANCE

Spills should be removed promptly and cleaned. Sealed areas should be cleaned regularly, use **Certi-Vex Super Degreaser & Cleaner** for all cleaning requirements.

## SPECIAL NOTES

- Warning: Do not re-use Part B once opened. Properly sealed, Part A can be re-used
- Powercoat UV+ HD 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. Do not use in constant immersion applications without consulting with Vexcon Chemicals first.
- A second coat can be applied after 6 hours and within 48 hours without abrading the surface.
- Do not apply more than one coat without proper surface preparation including surface abrasion after full cure.
- For use by experienced applicators
- Shelf Life: If properly stored in its original sealed container, one year.
- Follow all manufacturer's written dry time instructions.
- Do not apply coating when surface temperatures are below 50°F
- Do not apply coating when surface temperatures are above 85°F
- Do not apply coating on windy days
- Mechanically mix well before use
- Coating when adverse weather conditions are expected within 12 to 24 hours of application should be avoided
- Do not apply to frozen, frost or snowy surfaces
- Delivery: Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.
- Storage: Store materials in clean, dry area. Keep containers sealed until ready for use.
- Handling: Protect materials during handling and application to prevent damage or contamination.
- Do not use materials beyond manufacturer's shelf life.

## PACKAGING

	<u>Clear</u>	<u>Color</u>
<b>PART A CLEAR:</b>	2.92 gal by volume	70% by weight
<b>PART B CLEAR:</b>	1.08 gal by volume	30% by weight
<b>PART A COLOR:</b>	3.24 gal by volume	80% by weight
<b>PART B COLOR:</b>	0.79 gal by volume	20% by weight

**YIELD:** 4 gallons of finished coatings  
When using other containers to measure smaller volumes, the above ratios must be used.

## HEALTH AND SAFETY

Vexcon MSDS #CP108 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 it is advisable to obtain a copy of the MSDS #CP108, from your distributor or by contacting Vexcon Chemicals.

## CONTACT US@

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

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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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