POWERCOAT® UV+
FAST DRY • URETHANE • BREATHABLE • NON YELLOWING

DESCRIPTION
POWERCOAT UV+ combines the abrasion and UV resistance of a urethane coating with Vexcon’s PowerCoat breathable technology. This general purpose coating is ideal for areas requiring UV protection, long term durability and fast drying. PowerCoat UV+ 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 of the coating.

BENEFITS
- Best gloss and color retention
- Waterproofs and protects
- Retains over 99% of its gloss after 1500 hrs of UV testing
- Better abrasion resistance
- Aesthetically pleasing
- Better chemical resistance
- Economical
- 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
Residential, commercial, industrial, and distribution structures subject to light to moderate use where a hard, durable, chemical, abrasion and UV resistance coating is required.

SHORT SPECIFICATION
09 96 00: Basis of design, low VOC, breathable, two-component urethane coating with minimum solids of 31%. Retains 1500 hour ASTM D523 gloss and ASTM D1209 clarity as manufactured by Vexcon Chemicals.

PHYSICAL PROPERTIES
- Tack free: Less than 6 hours
- Curing time: 24 hours
- Full curing: One week
- Solids % by wt: Clear 31%, Clear Matte 35%, and Color 47%

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.

APPLICATION
- Repair large cracks using PowerCoat Epoxy Flexible Joint Sealant.
- Prior to use pre-condition material to between 65°F (18°C) and 75°F (24°C).
- 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+. 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 part until uniform in consistency. When this is done, mix part B into part A. Mix until uniform. The product is supplied at the proper consistency 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 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 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.
- 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 apply 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 (10°C) or above 85°F (20°C).
- 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, and then remove. If tape is clean the surface is dry.
**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, DOWNTIME, 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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**COVERAGE RATES/ESTIMATING**

Apply at 150-250 sq. ft./gal (2.5-3.8 m²/L) depending on desired film thickness. Calculated final dry film thickness is based on two coats.

- **PowerCoat Primer**  
  **Note:** After application surface must have an even sheen.

<table>
<thead>
<tr>
<th></th>
<th>First Coat</th>
<th>Second Coat</th>
<th>Final Coverage Dry Film Thickness</th>
</tr>
</thead>
<tbody>
<tr>
<td>Porous</td>
<td>200 sqft/gal</td>
<td>300 sqft/gal</td>
<td>125 sqft/gal 3.7 mils / 814µm DFT</td>
</tr>
<tr>
<td>Hard</td>
<td>300 sqft/gal</td>
<td>400 sqft/gal</td>
<td>175 sqft/gal 2.3 mils / 58µm DFT</td>
</tr>
<tr>
<td>Non-porous</td>
<td>5.3 mils WFT</td>
<td>4 mils WFT</td>
<td>2.3 mils / 58µm DFT</td>
</tr>
</tbody>
</table>

- **PowerCoat UV+**

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<thead>
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<th>Final Coverage Dry Film Thickness</th>
</tr>
</thead>
<tbody>
<tr>
<td>Porous</td>
<td>300 sqft/gal</td>
<td>300 sqft/gal</td>
<td>150 sqft/gal 3.7 mils / 84µm DFT</td>
</tr>
<tr>
<td>Hard</td>
<td>400 sqft/gal</td>
<td>400 sqft/gal</td>
<td>200 sqft/gal 2.8 mils / 71 µm DFT</td>
</tr>
<tr>
<td>Non-porous</td>
<td>4 mils WFT</td>
<td>4 mils WFT</td>
<td>2.8 mils / 71µm DFT</td>
</tr>
<tr>
<td>Hard</td>
<td>500 sqft/gal</td>
<td>500 sqft/gal</td>
<td>250 sqft/gal 2.2 mils / 56 µm DFT</td>
</tr>
<tr>
<td>Non-porous</td>
<td>3.2 mils WFT</td>
<td>3.2 mils WFT</td>
<td>2.2 mils / 56µm DFT</td>
</tr>
</tbody>
</table>

**SPECIFICATIONS/COMPLIANCE**

- **VOC** – <340 grams/liter or 2.84%vol (Clear)
- **VOC** – <340 grams/liter or 2.84%vol (Pigmented)

**MEETS:**
- US EPA AIM, OTC, LADCO/MRPO, CEPA/EC – Industrial Maintenance Coatings
- Accelerated Weathering ASTM G35/G154
- ASTM D 523 Gloss Testing - 1500 Hours
- Initial Gloss 103 units (60°)
- Finial Gloss 103 units (60°)
- ASTM D1209 APHA Color
- Initial <5
- Finial <50

**USDA requirements for paints and coatings for use in federally inspected meat and poultry plants.**

**Freeze Thaw Resistance after 100 freeze-thaw cycles**

<table>
<thead>
<tr>
<th>Cracking</th>
<th>Adhesion loss (intercoat)</th>
<th>Adhesion loss (to substrate)</th>
</tr>
</thead>
<tbody>
<tr>
<td>none</td>
<td>none</td>
<td>none</td>
</tr>
</tbody>
</table>

**CSI 09 96 00 - High Performance Coatings**

**MAINTENANCE**

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

**HEALTH AND SAFETY**

Vexcon MSDS CP107 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 from your distributor or visit vexcon.com.

**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

**PACKAGING**

<table>
<thead>
<tr>
<th>Mixing Ratios</th>
<th>Part A</th>
<th>Part B</th>
<th>Totals</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clear - Pounds</td>
<td>24.32</td>
<td>6.49</td>
<td>30.81</td>
</tr>
<tr>
<td>Clear - % by Wt</td>
<td>78.94%</td>
<td>21.06%</td>
<td>100.00%</td>
</tr>
<tr>
<td>Clear - Gallons</td>
<td>3.18</td>
<td>0.82</td>
<td>4.00</td>
</tr>
<tr>
<td>Matte - Pounds</td>
<td>28.01</td>
<td>6.57</td>
<td>34.58</td>
</tr>
<tr>
<td>Matte - % by Wt</td>
<td>81.00%</td>
<td>19.00%</td>
<td>100.00%</td>
</tr>
<tr>
<td>Matte - Gallons</td>
<td>3.17</td>
<td>0.83</td>
<td>4.00</td>
</tr>
<tr>
<td>Color - Pounds</td>
<td>28.39</td>
<td>6.57</td>
<td>34.96</td>
</tr>
<tr>
<td>Color - % by Wt</td>
<td>81.21%</td>
<td>18.79%</td>
<td>100.00%</td>
</tr>
<tr>
<td>Color - Gallons</td>
<td>3.17</td>
<td>0.83</td>
<td>4.00</td>
</tr>
</tbody>
</table>

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

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**WARRANTY**

**LIMITED WARRANTY:** Vexcon warrants for a period of one (1) year from the date of manufacture that the goods supplied hereunder shall be of standard 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 made in writing to Vexcon Chemicals within 10 days after each non-conformity is first discovered. As the EXCLUSIVE REMEDY for any breach of this Limited Warranty, Vexcon at its option 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 EXPRESSED 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 OF NEGLIGENCE, GROSS NEGLIGENCE, MISUSE, STORAGE DAMAGE, MISAPPLICATION, ACCIDENT, STRICT LIABILITY OR ANY OTHER TORT. No person is authorized by Vexcon to assume for it any other liability of any kind in connection with the sale or use of products manufactured and sold by it, and there are no oral agreements or warranties oral or written or otherwise, collating or affecting any sale or use. All of the foregoing arises under the substantive law of Pennsylvania without regard to principles of conflicts of laws.

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