POWERCOAT® UV+ WB

LOW ODOR • URETHANE • BREATHABLE • GENERAL PURPOSE • WATER BASE

DESCRIPTION
POWERCOAT UV+ WB combines the abrasion and UV resistance of a water base 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+ WB 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
- Low odor
- 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 WB, 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.

Do not apply second coat until the first coat is dry.

APPLICATION
- Repair large cracks using PowerCoat Epoxy Flexible Joint Sealant.
- Prior to use pre-condition material to between 65ºF (18°C) and 75ºF (24°C).
- When used on bare concrete PowerCoat Primer WB must be applied following the directions in product data sheet #CP100. The primer must be allowed to dry for at least 4 hours prior to application of PowerCoat UV+ WB. 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.
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 WB**
  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</td>
</tr>
<tr>
<td>Hard</td>
<td>300 sqft/gal</td>
<td>400 sqft/gal</td>
<td>175 sqft/gal</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>
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</tbody>
</table>

- **PowerCoat UV+ WB**

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<td>Porous</td>
<td>300 sqft/gal</td>
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<td>150 sqft/gal</td>
</tr>
<tr>
<td>Hard</td>
<td>400 sqft/gal</td>
<td>400 sqft/gal</td>
<td>200 sqft/gal</td>
</tr>
<tr>
<td>Non-porous</td>
<td>3.2 mils WFT</td>
<td>3 mils WFT</td>
<td>3.5 mils / 89µm DFT</td>
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</tbody>
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SPECIFICATIONS/COMPLIANCE
- VOC – <340 grams/liter or 2.84#/gal (Clear)
- VOC – <340 grams/liter or 2.84#/gal (Pigmented)
- Accelerated Weathering ASTM G53/G154 ASTM D 523 Gloss Testing - 1500 Hours Initial Gloss 103 units (60°) Final 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 Cracking none Adhesion loss (intercoat) none Adhesion loss (to substrate) none
- CSI 09 96 00 - High Performance Coatings

MAINTENANCE
Spills should be removed promptly and cleaned. Sealed areas should be cleaned regularly, use StarSeal® EF Degreaser & Cleaner for all cleaning requirements.

HEALTH AND SAFETY
Vexcon MSDS CP145 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 CP145 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></th>
<th>Mixing Ratios</th>
<th>Part A</th>
<th>Part B</th>
<th>Totals</th>
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</thead>
<tbody>
<tr>
<td>Clear - Pounds</td>
<td>25.90</td>
<td>6.47</td>
<td>32.37</td>
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<tr>
<td>Clear - % by Wt</td>
<td>80%</td>
<td>20%</td>
<td>100.00%</td>
<td></td>
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<tr>
<td>Clear - Gallons</td>
<td>3.17</td>
<td>0.83</td>
<td>4.0</td>
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<tr>
<td>Matte - Pounds</td>
<td>26.41</td>
<td>6.616</td>
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<tr>
<td>Matte - % by Wt</td>
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<td>20%</td>
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<tr>
<td>Matte - Gallons</td>
<td>3.16</td>
<td>0.84</td>
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<tr>
<td>Color - Pounds</td>
<td>29.52</td>
<td>7.38</td>
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<tr>
<td>Color - % by Wt</td>
<td>80%</td>
<td>20%</td>
<td>100.00%</td>
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<tr>
<td>Color - Gallons</td>
<td>3.06</td>
<td>0.94</td>
<td>4.0</td>
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YIELD: 4 gallons of finished coatings. When using other containers to measure smaller volumes, the above ratios must be used.

SPECIAL NOTES
- **Warning:** Do not re-use Part B once opened. Properly sealed, Part A can be reused. See Technical Note #TN-225.
- No induction required; use immediately after proper mixing.
- PowerCoat UV+ 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. 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 contractors.
- Follow manufacturer’s written dry time instructions.
- Do not apply coating when surface temperatures are below 50°F/10°C.
- Do not apply coating when surface temperatures are above 85°F/29°C.
- Do not apply coating on windy days.
- Mechanically mix well before use (jiffy- or squeegee-type mixer). Shaking is not sufficient.
- Avoid coating when adverse weather conditions are expected within 12 to 24 hours of application.
- Do not apply to frozen, frosted, or snowy surfaces.
- Keep material from freezing.
- 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.
- Shelf Life: If properly stored in its original sealed container, one year. Rotate you stock.
- Do not use materials beyond manufacturer’s shelf life.
- 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.

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 viewing by buyer prior to sale. Any claims under this warranty must be made in writing to Vexcon Chemicals within sixty (60) days after such non-conformity is first discovered. As the EXCLUSIVE REMEDY for any breach of this Limited Warranty, Vexcon in 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 BREACH OF CONTRACT, NEGLIGENCE, 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 of our products manufactured and sold by it, and there are no oral agreements or warranties collateral to or affecting any sale or use. All of the foregoing arises under the substantive law of Pennsylvania without regard to principles of conflict of laws.

LIMITATION OF LIABILITY: IN ALL EVENTS VEXCONS 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, CARE OR REAPPLICATION, DOWN TIMES, CLEANUP, LOSS OF USE, LOSS OF OPPORTUNITY, LOSS OF MARKET VALUE, LOSS OF RESELLER VALUE OR FOR ANY LOSSES, PROFITS OR OTHER SPECIAL, INCIDENTAL, CONSEQUENTIAL OR EXEMPLARY DAMAGES.