DESCRIPTION

POWERCOAT® PRIMER WB (WATER BASE)) is the answer to the question, “How can concrete be easily and economically cured prior to the application of epoxies or urethanes?”

PowerCoat Primer WB (water base) is a liquid membrane-forming curing and sealing compound manufactured using a 100% modified styrene acrylic polymer containing functional groups which will combine chemically with WB (water based) epoxy or urethane polymers. This unique and innovative curing membrane meets the requirements of ASTM C-1315 Type 1 or Type II Class B and can be re-coated without removal by most epoxy and urethane floor paints and finishes.

Since the PowerCoat Primer WB (water base) co-reacts with epoxy and urethane resins, the bonds formed between it and the epoxy or urethane are much stronger than the bonds formed between epoxies or urethanes and concrete which are subject to hydrolysis and alkali attack. The modified functional styrene acrylic polymer is a member of a class of materials with excellent adhesion to concrete.

Our in-house and independent laboratory testing has shown that most standard 100% epoxy and urethane finishes when applied to cured concrete, scored, and immersed in water overnight will lose their bond to the concrete and will easily flake off. PowerCoat Epoxies, when applied over concrete that has first been cured or sealed with PowerCoat Primer WB (water base), scored, and immersed in water overnight will for extended periods of time, do not lose their bond, flake, or peel.

PowerCoat Primer WB (water base) also provides an excellent base for most adhesives, paints, and a variety of other topcoats. PowerCoat Primer WB (water base) Color can be faux painted, mottled, or incorporate other design techniques, then top coated with PowerCoat Epoxy WB (water base), yielding a distinctive high performing decorative floor.

BENEFITS

- Available in clear and 15 standard and custom colors
- See Vexcon Color Systems Chart
- Match colored concrete floors, shake-on, or chemically treated floors
- Apply to new concrete for fast track project completion
- Provides for complete development of concrete’s wear resistance and strength properties
- Does not blush or whiten when applied to damp surfaces
- Prevents efflorescence, dusting, and spalling
- Aids in keeping floors cleaner during construction
- Low odor

APPLICATION

- Thoroughly mix with jiffy mixer before using or placing in the spray equipment’s reservoir.
- The product is supplied ready to use. Do not dilute with water or solvents.
- Apply by low-pressure sprayer with solvent resistant fittings. If not available, use a roller. If applying by roller for best results use Vexcon’s EvenFlow Applicator or 1/4”nap mohair-type, lint free, solvent resistant roller.
- Pre-wet roller or applicator with water initially. Roll off excess and use to pre-wet roller or applicator to apply the material. Wash roller or applicator in water periodically if roller starts to drag or cobweb, change roller or applicator.
- Use a roller pan to take off excess product. Do not dip and Roll, or pour and spread.
- IMPORTANT: PowerCoat Primer WB (water base), when dry, should have a uniform glossy appearance. If there is an appearance of gloss variation, a second thin coat of Primer is always recommended. Two coats at the recommended coverage rate are preferable to one thick coat. See Second Coat section. For color versions, a second light coat is always recommended.

SURFACE PREPARATION EXISTING CONCRETE

The concrete surface must be properly repaired, structurally sound and cleaned. Use Vexcon’s surface prep and cleaning products to properly clean the surface prior to application.

- To remove coatings such as epoxies, sealers, and curing compounds use StarSeal® EF Concrete Stripper.
- The concrete shall be cleaned with StarSeal EF Degreaser & Cleaner to remove any dust, dirt or debris and allowed to dry for a minimum of 24 hours after cleaning.
- To remove efflorescence or to etch the surface for improved material penetration use Certi-Vex® Etch & Efflorescence Remover. There should be no freestanding water on the surface when applied.
- Large cracks should be repaired using PowerCoat Epoxy Joint Sealant.

SEALING EXISTING CONCRETE

- Prior to application a test area must be performed to determine proper application rate and required surface preparation.
- To determine that the concrete is penetrable, perform a water absorbency test by applying water to a representative portion of the prepared concrete floor. A properly prepared surface when dry will immediately absorb clean water without any surface beading effects.
- If required use Certi-Vex Etch & Efflorescence Remover to improve sealer penetration. Apply one coat of PowerCoat Primer at 200-300 sq.ft./gal (5.0-7.5 m²L) and allow to dry for a minimum of 4 hours and no more than 48 hours before applying any PowerCoat Epoxy coating.
CURING AND SEALING NEW CONCRETE
- Apply PowerCoat Primer WB (water base) as soon as possible after the concrete has received final finishing, just as the water sheen disappears.
- If application is delayed, the concrete must be kept wet (preferably by water spray-mist) until the curing coat can be applied.
- Coat uniformly leaving no gaps, slips or excess, at a rate of 200-300sq.ft./gal (5.0-7.5 m²L).
- Let the concrete cure a minimum of 72 hours before application of PowerCoat Epoxy HD WB (water base). PowerCoat Epoxy LD WB (water base) may be applied 24-72 hours after application of primer.

SECOND COAT
A second coat may be required if the first coating is worn, damaged or gloss variation. Surfaces that have been sealed with PowerCoat Primer should be cleaned of construction dust, mortar, etc. by sweeping, washing and drying thoroughly. Apply a thin coat of PowerCoat Primer WB to the clean dry surface at 300-400sq.ft./gal (5.0-7.5 m²L). Let PowerCoat Primer WB dry a minimum of 4 hours and no more that 48 hours before applying any PowerCoat Epoxy coating.

STAINING CONCRETE
PowerCoat Primer WB can be used as a stain on concrete by applying lightly or wiping to achieve degree of stain. Apply according to instructions above. A second coat is recommended. Apply PowerCoat Epoxy WB (water base) over PowerCoat Primer WB Color.

SPECIFICATIONS/COMPLIANCE
VOC - <250 grams/liter or 2.08 #/.gal. (Clear / Pigm.)
- Meets:
  - US EPA AIM-Concrete Curing & Sealing Compounds
  - OTC- Waterproofing Concrete/Masonry Sealers
  - LADCO- Waterproofing Concrete/Masonry Sealers
  - CEPA/EC- Waterproofing Concrete/Masonry Sealers
  - CARB – Waterproofing Membrane
- LEED NC category/points: For detailed information visit vexcon.com/green
- ASTM C309, Type 1 Class A&B
- ASTM C1315 Type 1 (clear) or Type II (pigmented) Class B
- USDA requirements for paints and coatings for use in federally inspected meat and poultry plants
- Meets the requirements of the Tile Adhesion Test of the Resilient Tile Institute
- CSI reference: 09 96 56

INDEPENDENT LABORATORY TEST RESULTS DL Laboratories Report #DL- 10760B
PowerCoat Primer applied at 200sq.ft/gal on mortar panel, topcoated with PowerCoat Epoxy.
ASTM D 4541-Adhesion Test
Primed 395 psi Unprimed 350 psi
ALL breaks concrete failure
Federal Spec TTC 535, B Section 3.4.10
6 hours steam immersion

PACKAGING
PowerCoat Primer is available in 55 gallon drums and 5 gallon pails.

SPECIAL NOTES
- May show rubber burns
- This product will cause bleeding on bituminous surfaces
- May enhance mottling of colored surface
- Not gasoline resistant
- Equipment clean up: Use Certi-Vex Equipment Cleaner, flush with water.
- Do not use with topcoats that contain large amounts of ketones, which may lift the PowerCoat Primer WB.
- For PowerCoat Primer WB Color, same lot numbers should be used throughout the project. If lot numbers differ, box-mix prior to use.
- PowerCoat Primer WB Color must be thoroughly mixed prior to each use.
- Can be applied when air and surface temperatures are 40°F (4°C) - 85°F (29°C). If air and surface temperatures are below 40°F (4°C) or above 85°F (29°C), please consult Vexcon’s Cold Weather Application Guide (TN195) or Hot Weather Application Guide (TN194).
- For use by experienced applicators
- Shelf Life: If properly stored in its original sealed container, one year from date of manufacture. Rotate 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.
- Warranty: All products are sold subject to Vexcon’s published materials Limited Warranty and Terms and Conditions of Sale and can be changed without notice. You may view our Warranty’s and Terms and Conditions of Sale at vexcon.com.

PHYSICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Clear</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dry to touch</td>
<td>90 minutes</td>
<td>90 minutes</td>
</tr>
<tr>
<td>Dry tack free</td>
<td>60 minutes</td>
<td>60 minutes</td>
</tr>
<tr>
<td>Moisture Retention</td>
<td>Passes</td>
<td>Passes</td>
</tr>
<tr>
<td>Solids:</td>
<td>25%</td>
<td>42%</td>
</tr>
</tbody>
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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.

HEALTH AND SAFETY
- Use only with adequate ventilation
- If swallowed, do not induce vomiting.
- Use of gloves, goggles and other protective clothing is advised when using this product.
- Use of respirators is advised when using in confined areas. Vexcon SDS CP100 is an integral part of the safety and application of our product. A short synopsis is provided in this product data sheet. Before using product obtain a copy of the SDS 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.

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