

**VEXCON**
CHEMICALS, INC.Concrete solutions for architects, engineers and builders since 1974
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POWERCOAT® PRIMER CLEAR AIM

ADVANCED CURE, SEAL AND PRIMER FOR EPOXIES AND URETHANES

DESCRIPTION

POWERCOAT PRIMER is the answer to the question “How can concrete be easily and economically be cured and primed prior to the application of epoxies or urethanes?” PowerCoat Primer 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 epoxy or urethane polymers.

This unique and innovative curing membrane meets the requirements of ASTM C-1315 Type I 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 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, scored and immersed in water overnight and for extended periods of time, do not lose their bond, flake or peel. PowerCoat Primer also provides an excellent base for most adhesives, paints and a variety of other topcoats.

BENEFITS

- Meets USEPA AIM and OTC VOC Regulations
- 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

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 neoprene fitting. If not available use a 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
- **IMPORTANT:** PowerCoat Primer when dry, should have a uniform glossy appearance. If there is an appearance of gloss variation, a second coat of Primer is 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 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 epoxy’s, sealers and curing compounds use **Certi-Vex® Concrete Stripper**.
- The concrete should be cleaned with **Certi-Vex® Super 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.
- Large cracks should be repaired using **PowerCoat Epoxy Flexible 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 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 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 200-300 sq.ft./gal. (5.0-7.5 m²L).
- Let the concrete cure a minimum of 72 hours before application of **PowerCoat Epoxy HD**. **PowerCoat Epoxy LD** 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 to the clean dry surface at 300-400 sq.ft./gal (5.0-7.5 m²L). Let PowerCoat Primer dry a minimum of 4 hours and no more than 48 hours before applying any PowerCoat Epoxy coating

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**
- Do not use with topcoats that contain large amounts of ketones, which may lift the PowerCoat Primer.
- Can be applied when air and surface temperatures are 20°F-85°F (-6°C - 29°C). If air and surface temperatures are below 20°F (-6°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.

SPECIFICATIONS/COMPLIANCE

- VOC <250 grams/liter or <2.09 #/gal – (Clear)
- Meets – Clear
 - US EPA AIM – Concrete Curing Compound
 - OTC – Concrete Curing Compound
 - LADCO/ MRPO Concrete Curing Compound
 - CEPA/ EC – Concrete Curing Compound
 - CARB – Concrete Curing Compound
 - SCAQMD - Rule 1113 - Concrete Curing Compound for roads & bridges only (not for use on curbs and gutters, sidewalks, islands, driveways and other miscellaneous concrete areas)
- ASTM C309, Type 1 Class A&B
- Federal Specification TT-C-800-A (GSA-FSS) Type 1
- 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
- Test reports are available upon request
- CSI: [09 96 56]

INDEPENDENT LABORATORY TEST RESULTS

D/L LABORATORY D/L LAB# 10760B

PowerCoat Primer applied at 200 sq.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.

PHYSICAL PROPERTIES

- Color Clear
- Dry to touch 60 minutes
- Dry tack free 30 minutes
- Moisture Retention Passes
- Solids 38%

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 CP101-AIM 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 service is available by contacting Vexcon Chemicals directly, or our distributors.

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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 its 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 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 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 collateral to 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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