

POWERCOAT[®] PRIMER CLEAR AIM

ADVANCED CURE, SEAL AND PRIMER FOR EPOXIES AND URETHANES

DESCRIPTION

POWERCOAT[®] PRIMER AIM 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 1 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

- USEPA AIM and OTC VOC regulations
- 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

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.
- **IMPORTANT:** Powercoat Primer, when dry, should have a uniform glossy appearance. If there is an appearance of gloss variation, a second coat is recommended. Two coats at the recommended coverage rate are preferable to one thick coat. See Second Coat section. For color versions, a second 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 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 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 coating.

CURING AND SEALING NEW CONCRETE

- Apply Powercoat Primer AIM 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 AIM 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 AIM.
- If properly stored in its original sealed container, one year from date of manufacture. Rotate your stock
- Can be applied to 20⁰F. Request Cold Weather Application Guide.
- For use by experienced applicators.
- 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/litr or <20.9#/gal
- Meets
 - US EPA AIM – Concrete Curing Compound
 - OTC- Concrete Curing Compound
 - LADCO- Concrete Curing Compound
 - Canada- Curing Compound
 - CARB- Concrete Curing Compound
 - SCAQMD- Rule 1113 - Concrete Curing Compound for roads & bridges
- ASTM C309, Type 1 Class A&B
- Federal Specification TT-C-800-A (GSA-FSS) Type 1
- ASTM C1315 Type 1
- 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

INDEPENDENT LABORATORY TEST RESULTS

D/L LABORATORY D/L LAB# 10760B

Powercoat Primer AIM 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 Clear AIM is available in 55 gallon drums and 5 gallon pails and 1 gallon containers. Please contact Vexcon for all you packaging needs.

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

CAUTION FLAMMABLE LIQUID

- Resin solution, flammable liquid, red label
- Use of respirators is mandatory when using this product in confined areas.
- 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.

Vexcon MSDS 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 this Vexcon product it is advisable to obtain a copy of the MSDS CP101 AIM from your distributor or by contacting Vexcon Chemicals.

CONTACT US @

Additional product information, technical assistance and customer services are 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 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 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. 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.