DESCRIPTION

POWERCOAT® EPOXY HD AIM is a premium heavy duty breathable epoxy coating that provides durability, abrasion, excellent chemical resistance and adhesion for the most demanding environments. Independent lab testing shows that the product affords hardness and abrasion resistance comparable to high build systems.

PowerCoat Epoxy AIM features PowerCoat breathable technology which is designed to eliminate adhesion failure associated with epoxy and polyurethane coatings due to moisture in concrete. PowerCoat breathable technology allows moisture vapor to pass through preventing blistering and peeling. Independent tests verify that PowerCoat has 3.30 perms rating, truly an epoxy that breathes. PowerCoat is guaranteed to reduce moisture vapor emissions (MVER) from as high as 27# per ASTM F-1869 calcium chloride test results to below 3.0#/sq.ft./24hrs.

PowerCoat Epoxy AIM and Primer AIM can be applied to fresh concrete for fast track project completion and provides a coating barrier against physical abrasion, corrosion, and commonly encountered acid and alkali chemicals. It also resists gasoline, brake fluids, solvents, salts and some alcohols.

APPLICATION

- Surfaces must be primed with PowerCoat Primer AIM, and should be allowed to dry for at least 4 hours for existing and 72 hours for new concrete prior to application of PowerCoat Epoxy HD AIM.
- Large cracks should be repaired using PowerCoat Epoxy Flexible Joint Sealant.
- Prior to use pre-condition material to between 65°F (18°C) and 75°F (24°C).
- 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 until uniform in consistency. When this is done, mix part B into part A, and mix thoroughly until uniform.
- After thoroughly mixing, allow the mixed product to stand undisturbed for a 30-minute induction period before applying. Low temperatures require longer induction; temperature above 80°F., less induction.
- The product is supplied at the proper consistency for application and dilution will reduce efficiency.
- Same lot numbers should be used throughout the project. If lot numbers differ, box-mix prior to use. If 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 ¾” 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 film properties.
- The mixed material has a pot life of approximately 4 to 6 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 put on a second coat if the first coat is not dry.
- To protect your PowerCoat floor from ongoing construction dust, dirt, and debris, use Certi-Vex® Tale Release until construction is completed.
- Clean application equipment daily with Certi-Vex Equipment Cleaner.
- To improve non-slip profile, use Certi-Vex Grip or PowerCoat Epoxy Non-Slip Additive.
- For a unique and custom floor, use Certi-Vex Deco Chips.

SPECIFICATIONS/COMPLIANCE

- VOC: Clear <340 grams/Liter or <2.83#/gal. (Clear & Pigmented)
- Meets US EPA AIM, OTC, LADCO/MRPO, CEPA/EC - Industrial Maintenance Coatings
- USDA requirements for paints and coatings for use in federally inspected meat and poultry plants.
- Chemical resistance, see TN168, available on the web at vexcon.com/ Product Resources/ Technical Notes.
- CSI 09 96 00- High Performance Coatings

BENEFITS

- Available in clear gloss and semi-gloss/matte, 19 standard and custom colors. See Vexcon Color Systems brochure.
- Best chemical resistance including acids, alkalis, solvents and salts
- Vexcon’s breathable technology
- Maximum hardness and adhesion
- Waterproofs and protects
- Cures with minimum shrinkage or loss in film thickness
- Performance warranty
- Apply to fresh concrete for fast track project completion
- Attractive seamless floor

RECOMMENDED FOR

Recommended for commercial, industrial, transportation and other areas that require a durable and chemical resistant coating.

DRAINAGE

- 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 60°F or above 85°F.
- Material must be within temperature ranges prior to application.
- Do not apply second coat until the first coat is dry. Test for dryness by pressing tape hard onto the surface. Leave for 5 minutes, remove. If tape is clean, the surface is dry.
- Tack free
- Curing time - Foot traffic
- Curing time - Vehicle traffic

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- If using a roller, do not overwork the material. Coat in one lapping direction only; overworked material can affect film properties.
- The mixed material has a pot life of approximately 4 to 6 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 put on a second coat if the first coat is not dry.
- To protect your PowerCoat floor from ongoing construction dust, dirt, and debris, use Certi-Vex® Tale Release until construction is completed.
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COVERAGE RATES/ESTIMATING
Apply PowerCoat Primer at 200-300 sq ft/gal. Note: After application, surface must have an even sheen. If sheen is uneven or patchy, apply a second coat of Primer at 300 sq ft/gal.

Estimate PowerCoat Epoxy HD AIM at 150-250 sq ft./gal. (3.6-6.3 m²/L) depending on desired film thickness and porosity of concrete. Actual application is in two thin coats, not one thick coat. Calculated final dry film thickness is based on two coats.

- **PowerCoat Primer AIM**
  - 25% solids
    - Porous: 200 sq ft/gal 8 mils WFT 300 sq ft/gal 5.3 mils WFT 125 sq ft/gal 3.2 mils / 81 µm DFT
    - Hard, Non-porous: 300 sq ft/gal 5.3 mils WFT 400 sq ft/gal 4 mils WFT 175 sq ft/gal 2.3 mils / 58 µm DFT
  - 61% solids vol.
    - Porous: 300 sq ft/gal 5.3 mils WFT 400 sq ft/gal 4 mils WFT 200 sq ft/gal 4.8 mils / 123 µm DFT
    - Hard, Non-porous: 500 sq ft/gal 3.2 mils WFT 500 sq ft/gal 3.2 mils WFT 250 sq ft/gal 3.9 mils / 99 µm DFT

- **PowerCoat Epoxy HD AIM**
  - 25% solids
    - Porous: 200 sq ft/gal 8 mils WFT 300 sq ft/gal 5.3 mils WFT 125 sq ft/gal 3.2 mils / 81 µm DFT
    - Hard, Non-porous: 300 sq ft/gal 5.3 mils WFT 400 sq ft/gal 4 mils WFT 175 sq ft/gal 2.3 mils / 58 µm DFT
  - 61% solids vol.
    - Porous: 300 sq ft/gal 5.3 mils WFT 400 sq ft/gal 4 mils WFT 150 sq ft/gal 6.4 mils / 162 µm DFT
    - Hard, Non-porous: 500 sq ft/gal 3.2 mils WFT 500 sq ft/gal 3.2 mils WFT 60 mils / 1650 µm DFT

SPECIAL NOTES
- PowerCoat Epoxy 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. For immersion test information, see TN168. If chemical is not on list, do not use in constant immersion applications without contacting Vexcon.
- Do not apply below 60°F (15°C) or above 85°F (29°C). When temperatures are outside this range review Vexcon’s Hot and Cold Weather Application Guides, available at vexcon.com.
- Do not apply more than one coat without proper surface preparation including surface abrasion after full cure.
- Do not use spiked shoes during application.
- A second coat can be applied after 6 hours and within 48 hours without abrading the surface.
- Maintenance-clean regularly with StarSeal® EF Degreaser & Cleaner.
- For use by experienced contractors.
- A semi-gloss/matte finish will develop in 7 days if using clear semi-gloss matte PowerCoat Epoxy HD AIM.
- Shelf Life: If properly stored in its original sealed containers, one year from date of manufacture. Rotate your stock.
- Storage/ Handling: Store in tightly sealed original factory container. Keep from freezing and exposure to temperature prior to use. Care should be taken to keep dirt, water and contaminants away from the opening of containers.
- Delivery: Deliver materials to 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 supervision on location.

HEALTH AND SAFETY
Vexcon MSDS #CP103 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 obtain a copy of the MSDS from your distributor or visit vexcon.com.

PHYSICAL PROPERTIES
- Solids 61% by volume, 72% by weight
- **YIELD:** 4 gallons of finished coating. When using other containers to measure smaller volumes, the above ratios must be used.

INDEPENDENT TEST REPORT SUMMARY

<table>
<thead>
<tr>
<th>Test Method</th>
<th>Characteristic</th>
<th>Results</th>
<th>Lab Report</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASTM B117</td>
<td>Salt Spray Resistance</td>
<td>Overall: 10</td>
<td>Scribed: 10</td>
</tr>
<tr>
<td>ASTM D1653</td>
<td>Breathability Permeability</td>
<td>3.30 perms (English units)</td>
<td>2.17 metre perms</td>
</tr>
<tr>
<td>ASTM D2047</td>
<td>Slip Resistance</td>
<td>Coefficient of Friction</td>
<td>Case Consulting Laboratories</td>
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<tr>
<td>ASTM D4600</td>
<td>Abrasion Resistance (Taber Abraser)</td>
<td>CS-17 wheel; 1000/1000 revs</td>
<td>DL-11146</td>
</tr>
<tr>
<td>ASTM D4541</td>
<td>Adhesion (Pull-off)</td>
<td>Primed 395 psi</td>
<td>Unprimed 350 psi</td>
</tr>
<tr>
<td>ASTM D522</td>
<td>Flexibility, Method B, 1/8&quot; Mandrel</td>
<td>No cracking or loss of bond</td>
<td>DL-11372</td>
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<tr>
<td>ASTM D523</td>
<td>Gloss 60°</td>
<td>90 units</td>
<td>DL-10760</td>
</tr>
<tr>
<td>ASTM D968</td>
<td>Abrasion Resistance (Falling Sand)</td>
<td>&gt;30,ml</td>
<td>DL-11372</td>
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<tr>
<td>ASTM E84</td>
<td>Fire Rating</td>
<td>Flame Spread Index: Class A</td>
<td>HPVA T0545E</td>
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<tr>
<td>ASTM F1869</td>
<td>Breathability</td>
<td>Moisture Vapor Emission</td>
<td>BEE Labs</td>
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<tr>
<td>ASTM G537</td>
<td>Accelerated Weathering</td>
<td>No blistering: 10</td>
<td>No chalking: 10</td>
</tr>
<tr>
<td>Fed Spec TTC-535-B Sec 3.4.10</td>
<td>Surface Resistance, 6 hrs exposure</td>
<td>24 hrs recovery, 6 hrs additional exposure</td>
<td>Blistering: 10; Peeling: 10</td>
</tr>
</tbody>
</table>

Note: ASTM Standard Scoring System: 10 = No Effect, or Perfect Performance

CONTACT US @
Additional product information, technical assistance and customer services are available by contacting Vexcon Chemicals directly or our distributors.

- vexcom.com
- techservice@vexcom.com
- customersevice@vexcom.com
- sales@vexcom.com
- Voice: 888.839.2661
- Fax: 215.332.9997

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 must be made in writing to Vexcon Chemicals within sixty (60) days after such non-conformity is first discovered. The EXCLUSIVE REMEDY for any breach of this Limited Warranty, Vexcon as its option shall replace nonconforming goods or refund the purchase price. Since methods of use and application are beyond Vexcon’s control, the Limited Warranty in lieu of all other Warranties Express 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 liability for any kind of injury 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 limited warranty. All of the foregoing arises under the substantive law of Pennsylvania without regard to principles of conflicts of law.

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, 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, CONSEQUENTIAL OR EXEMPLARY DAMAGES.