



VEXCON
CHEMICALS, INC.

Concrete solutions for architects, engineers and builders since 1974
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POWERCOAT® ONE

GAS/OIL/TIRE RESISTANT • SINGLE COMPONENT • BREATHABLE

DESCRIPTION

POWERCOAT® One is an easy-to-use single-component water-based light duty styrene acrylate epoxy. Powercoat One provides the performance of a two-component epoxy in an economical coating that is tough, chemical resistant, and long lasting. The presence of moisture will cause other epoxies and urethane coatings to lose adhesion and fail. Powercoat breathable technology allows moisture vapor to pass through rather than becoming trapped, preventing blistering and peeling. Independent tests verify that Powercoat has 3.30 perms rating, truly an epoxy that breathes.

BENEFITS

- Available in clear gloss and semi-gloss/matte, 19 standard and custom colors. See Vexcon Color Systems Chart
- Single component epoxy
- Low odor
- Stain, gasoline, salt and hot tire resistant
- Unlimited pot life, when properly sealed
- Vexcon's breathable technology
- No component mixing
- No induction waiting time
- Interior and exterior applications
- Use on new and existing concrete
- Better adhesion and durability than standard cure and seal coatings
- Meets strict VOC regulations
- No primer required for existing concrete

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 Stripper**.
- The floor should 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**.
- Can be applied to damp surfaces; however do not apply over puddled water
- Large cracks should be repaired using **Powercoat Epoxy Joint Sealant**.

RECOMMENDED APPLICATIONS

Recommended for residential and commercial applications:

- Basements
- Recreational areas
- Commercial showrooms
- Educational and healthcare facilities
- Residential Garages
- Kitchens
- Lobbies and walkways
- Driveways and patios

APPLICATION

- Mix well before each use.
- **Two coats are required. The second coat can be applied after the first coat has thoroughly dried. The dry time is dependent on temperature, air flow, humidity, film thickness and concrete conditions, not a specific number of hours. Do not put on a second coat if the first coat is not completely dry. See Dry Time section.**
- Do not add thinner. 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, inter-mix ("box") containers prior to use. If two different lots are used, apply a final thin coat to the entire area.
- Vexcon recommends our **EvenFlow Applicator** or ¼ " nap mohair roller only.
- Use a roller pan to take off excess product. Do not dip and roll or pour and spread.
- If using a roller do not overwork the material. Coat in one lapping direction only, overworked material can affect the coatings film properties.
- Clean application equipment daily with **Certi-Vex Equipment Cleaner**, then flush with water.
- To improve non-slip profile use **Certi-Vex Grip** or **Epoxy Non-Slip Additive**.
- For a unique and custom floor use **Certi-Vex Deco Chips**.
- To achieve a **gloss** appearance, apply a coat of Powercoat One Clear as a top coat @ 250 sq.ft./gal. after the second coat of Powercoat One Color has dried.

CURING AND SEALING NEW CONCRETE

- Apply Powercoat Primer 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.
- Let the concrete cure a minimum of 24-72 hours before application of Powercoat One.
- Apply first coat uniformly leaving no gaps, slips or excess, of Powercoat One @ 500 sq.ft./gal on hard non-porous floors and @ 300 sq.ft./gal on porous floors.
- After application of first coat, a second coat is required. See Second Coat section.

EXISTING CONCRETE

- Prior to application a test area must be performed to determine proper application rate and required surface preparation.
- Etch the surface for proper material penetration. Use **Certi-Vex Etch & Efflorescence Remover** at a dilution rate of 1 to 3 water.
NOTE: Do not use muriatic acid. See data sheet # OP107 for application instructions.
- Neutralizing the surface is required with **StarSeal EF Neutralizing Rinse & Cleaner**
- Apply first and second coat depending on desired final film thickness and porosity of concrete according to chart below. We recommend a final film thickness of 250 sq.ft./gal on hard non-porous floors and 150 sq.ft./gal on porous floors.
- After application of first coat, a second coat is required. See Second Coat section.

SECOND COAT

After application of the first coat, all Powercoat One applications require a second coat. See coverage rate chart below.

- The first coat must be allowed to dry a minimum of 24 hours or longer if necessary until completely dry, "tack free".
- Test the coating with scotch tape. Press hard, leave for 5 minutes then rip off. Dry when no coating adheres to tape.
- If the first coat has been completely dry for more than 48 hours, lightly scuff or sand the first coat with 200 grit paper to assure good intercoat adhesion.
- For a gloss appearance apply one coat of Powercoat One Clear after the second coat of color has dried.

SPECIAL NOTES

- **Important** – Read and follow all instructions. Any questions, contact Vexcon.
- Surface can be used for light duty use 24 hours after final coat. See Dry Time section.
- Surface can be put into full service after 7 days.
- Will tend to show minimal rubber burns. Clean with **StarSeal EF Degreaser & Cleaner**.
- May enhance mottling of colored surfaces
- Gasoline, oil, salt, jet fuel, water and chemical resistance will develop after last coat has been completely dry for minimum of 7 days
- Do not allow area to become wet until completely dry
- Surface may darken with application and aging
- Do not apply more material per sq. foot than specified
- If applied outdoors the product may slightly discolor
- Spot resistance to brake fluid, not full immersion
- 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 containment.
- Delivery: Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.
- Clean-up: Soap and water
- Do not apply below 50°F (4°C) or above 85°F (29°C)
- Shelf Life: If properly stored in its original sealed containers, one year. Rotate your stock.
- 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.

PACKAGING

Powercoat One is available in easy to use one gallon containers, 5 gallon pails and 55 gallon drums.

PHYSICAL PROPERTIES

- | | | |
|----------------------|-------------------------------|------------------|
| • Dry | Tack free for foot traffic | 24 hours minimum |
| • Curing time | Gasoline and water resistance | 7 days |
| • Curing time | Heavy vehicles | 7 days |
| • Solids - Pigmented | 40% by volume, 50% by weight | |
| • Solids - Clear | 34% by volume, 36% by weight | |

Note: Dry and curing time depend on air and surface temperature, humidity and film thickness. All calculations based upon ambient temperature 68-77°F (20-25°C). See Dry Time section.

MAINTENANCE/CLEANING

- Do not rinse or clean surface for a minimum of 30 days after application
- Use StarSeal EF Degreaser & Cleaner as part of cleaning program

SPECIFICATIONS/COMPLIANCE

VOC <340 grams/liter or 2.83 #/gal. (clear / pigm.)

- Meets:
 - USEPA AIM-Industrial Maintenance Coatings
 - OTC- Industrial Maintenance Coatings
 - LADCO/MRPO- Industrial Maintenance Coatings
 - CEPA/EC- Industrial Maintenance Coatings
- LEED NC category/points: For detailed information visit vexcon.com/green
 - EQ 4.2 – 1 point
 - MR 2.1/2.2 – 1 point
 - MR 5.1/5.2 – 1 point
- ASTM C309 Class A&B Type 1(clear) and II (color)
- ASTM D2047 tested, meets OSHA and ADA Non-slip
- USDA approved
- ASTM E84 Class A fire rating
- ASTM D1653 3.30 perms DL LABS # 11884-B

COVERAGE RATE DRY & WET FILM CALCULATION

We recommend a final film thickness of 150-250 sq.ft./gal.

Apply first and second coat depending on desired final film thickness, porosity of concrete, type of floors, and total square feet according to chart below.

COLOR

<u>FIRST COAT</u>	<u>SECOND COAT</u>	<u>FINAL FILM THICKNESS</u>
300 sq.ft./gal (5.34 mils)	300 sq.ft./gal (5.34 mils)	150 sq.ft./gal 4.27 mils DFT (10.68.mils WFT)
500 sq.ft./gal (3.20 mils)	500 sq.ft./gal (3.20 mils)	250 sq.ft./gal 2.56 mils DFT (6.4mils WFT)

CLEAR

<u>FIRST COAT</u>	<u>SECOND COAT</u>	<u>FINAL FILM THICKNESS</u>
300 sq.ft./gal (5.34 mils)	300 sq.ft./gal (5.34 mils)	150 sq.ft./gal 4.27 mils DFT (10.68.mils WFT)
500 sq.ft./gal (3.20 mils)	500 sq.ft./gal (3.20 mils)	250 sq.ft./gal 2.56 mils DFT (6.4mils WFT)

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 or above 85°F.
- 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 then remove. If tape is clean the surface is dry.

HEALTH AND SAFETY

Vexcon MSDS #CP099 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 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

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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