



POWERCOAT® ONE

LIGHT DUTY • GAS/OIL/TIRE RESISTANT • SINGLE COMPONENT

VOC Content: 86 gr/liter or 0.72 #/gal – Concrete Protective Coating - Pigmented

VOC Content: 78 gr/liter or 0.65 #/gal- Concrete Protective Coating - Clear

DESCRIPTION

POWERCOAT® ONE is a easy to use single component water based light duty styrene acrylate epoxy. Available in clear and colors, Powercoat ONE provides the benefits and performance as a two component epoxy in an economical coating that is tough, chemical resistant and long lasting. The presence of moisture will cause other epoxys and urethane coatings to lose adhesion and fail. Powercoat breathable technology allows moisture vapor to pass through rather than becoming trapped, preventing blistering cracking and peeling. Independent tests verify that Powercoat has 3.30 perms rating, truly an epoxy that breathes. Recommended for residential and commercial applications such as gas stations, garages, distribution centers, driveways or any concrete surface requiring greater long term wear and staining resistance than a standard cure and seal coating.

BENEFITS

- Available in clear and 17 standard and custom colors
See Vexcon Color Systems Chart
- Single component epoxy
- Low odor
- Stain, gasoline and hot tire resistant
- Vexcon's breathable technology
- Interior and exterior applications
- Use on new and existing concrete
- Better adhesion and durability than standard cure and seal coatings
- Meets strictest 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 **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.
- Large cracks should be repaired using **Powercoat Epoxy Joint Sealant**.

APPLICATION

- New concrete surfaces must be primed with **Powercoat Primer Water Base**.
- 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, 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.**
- 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, box-mix prior to use. If two different lot's are used, apply a final thin coat to the entire area.
- Apply by spray, brush or roller. For best results use Vexcon's **EvenFlow Applicator** or ¼ " nap mohair roller.
- If using a roller do not overwork the material. Coat in one lapping direction only, overworked material can affect the film properties.
- To protect your Powercoat floor from ongoing construction dust, dirt and debris, use **Ceti-Vex Talc Release** until all construction work is completed.
- 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**.

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.
- Coat uniformly leaving no gaps, slips or excess, at a rate of 200-300 sq.ft./gal. (5.0-7.5 m²/L).
- Let the concrete cure a minimum of 24-72 hours before application of Powercoat ONE.
- Apply Powercoat ONE @ 250 sq.ft. /gal (6.2 m²/L) on hard non-porous floors and @ 150 sq.ft. /gal (3.8 m²/L) 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.
- 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 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 (6.2 m²/L) on hard non-porous floors and 150 sq.ft. /gal (3.8 m²/L) 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, typically a second coat is applied when the surface has dried through or 24 hours after first coat. If more than 24 hours has passed, the first coat should be lightly scuffed to assure good intercoat adhesion. See coverage rate chart below.

COVERAGE RATE DRY FILM CALCULATION

We recommend a final film thickness of 150-250 sq. ft./gal (3.8-6.2 m²/L). Apply first and second coat depending on desired final film thickness and porosity of concrete according to chart below.

COLOR

<u>FIRST COAT</u>	<u>SECOND COAT</u>	<u>FINAL FILM THICKNESS</u>
300 sq.ft. /gal.	300 sq.ft./gal.	150sq.ft./gal. 4.27 mils DFT
500 sq.ft. /gal.	500 sq.ft./gal.	250sq.ft./gal. 2.56 mils DFT

CLEAR

<u>FIRST COAT</u>	<u>SECOND COAT</u>	<u>FINAL FILM THICKNESS</u>
300 sq.ft. /gal.	300 sq.ft./gal.	150sq.ft./gal. 3.68 mils DFT
500 sq.ft. /gal.	500 sq.ft./gal.	250sq.ft./gal. 2.21 mils DFT

SPECIFICATIONS/COMPLIANCE

- ASTM C 309 Class A&B, and C 1315, Class B Type I and II except for tile adhesion.
 - ASTM D2047 and ADA Non-slip
 - USDA approved
 - ASTM-E84 Class A fire rating
 - ASTM D1653 3.30 perms DL LABS # 11884-B
 - Meets USEPA AIM and OTC VOC regulations
 - Meets LEED point standards for green building
- Test reports are available upon request

SPECIAL NOTES

To assist in application, please note 200 sq.ft. /gal is equal to the thickness of a sheet of paper

- Will tend to show minimal rubber burns
- May cause mottling of colored surfaces
- Gasoline, oil, jet fuel and chemical resistance develops in 72 hrs after drying
- Surface may darken with application and aging
- Do not apply more material per sq. foot than specified
- If applied outdoors the product may discolor
- Spot resistance to brake fluid, not full immersion
- Maintenance: Clean regularly with Certi-Vex Super Degreaser & Cleaner
- Store at room temperature
- Do not apply below 40°F (4° C) or above 85°F (29° C)
- Shelf Life: If properly stored in it's original sealed containers, six months. Rotate your stock
- For use by experienced applicators

VITAL STATISTICS

- Flash Point (TCC) 212° F (41°C)
- Extinguishing Media Foams, Dry Chemical, CO₂, Water may be used to reduce the rate of burning and for cooling containers.

PACKAGING

Powercoat ONE is available in easy to use one gallon containers equipped with easy pour re-useable lids, 5 gallon pails and 55 gallon drums.

PHYSICAL PROPERTIES

- Dry Tack free Less than 6 hours
- Curing time Foot traffic 24 hours
- Curing time Gasoline resistance 72 hours
- Curing time Heavy vehicle traffic One week
- Solids - Pigmented 40% by volume, 50% by weight
- Solids - Clear 34% by volume, 36% by weight

Note: Dry and curing time depend 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. **Do not apply second coat until the first coat 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 service is available by contacting Vexcon Chemicals directly or our distributors.

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