

POWERCOAT® ANTI-GRAFFITI

BREATHABLE • DURABLE • URETHANE • NON YELLOWING

DESCRIPTION

POWERCOAT ANTI-GRAFFITI is a fast drying two component breathable clear urethane coating that will protect concrete, masonry, block, wood, and primed metal surfaces from graffiti. It is designed to provide excellent adhesion, chemical and abrasion resistance, as well as water and weatherproofing of surfaces that will be cleaned with solvents and cleaners to remove graffiti. The product allows for the removal of graffiti without harming the coating.

PowerCoat Anti-Graffiti combines the benefits of a urethane coating with Vexcon's PowerCoat breathable technology.

PowerCoat breathable technology allows moisture vapor to pass through rather than becoming trapped; this prevents blistering and peeling.

This graffiti coating system is designed to be applied over Vexcon's decorative premium Wall Coatings or PowerCoat Primer, yielding a protected, aesthetically pleasing, and uniform appearance.

BENEFITS

- Excellent gloss retention
- Non-Sacrificial
- UV stable and will not yellow
- Waterproofs and protects
- Retains over 99% of its gloss after 1500 hrs of UV testing
- Vexcon's PowerCoat breathable technology
- Eliminates adhesion failures normally encountered with polyurethane coatings on concrete
- Can be applied to fresh/green or damp concrete for quick return to service when used with Vexcon's **PowerCoat Primer**, a ready to use cure and prime product
- Available in clear gloss or matte finish

RECOMMENDED FOR

- Concrete and masonry surfaces such as stucco, brick, concrete block, pre-cast, poured in place, and tilt up concrete.
- Areas subject to graffiti, such as architectural finishes for buildings, sound walls, highway bridge structures, median barriers, retaining walls, tunnels, or any area that would require removal of graffiti.

SHORT SPECIFICATION

09 96 23: Basis of design, low VOC, breathable, two-component Anti - Graffiti coating with minimum solids of 70%. Retains 1500 hour ASTM D523 gloss and ASTM D1209 clarity as manufactured by Vexcon Chemicals.

APPLICATION

- PowerCoat Anti-Graffiti can be applied over **Certi-Vex® Envio Smooth** VOC or Emulsion wall coatings as the base coat. Follow the application directions for the base coat and allow to dry 24 hours before applying PowerCoat Anti-Graffiti.
- Repair large cracks using **PowerCoat Epoxy Flexible Joint Sealant Vertical**.
- Prior to use pre-condition material to between 65°F (18°C) and 75°F (24°C).
- When used on bare concrete, PowerCoat Primer must be applied following the directions in product data sheet #CP101. The primer must be allowed to dry for at least 4 hours prior to application of PowerCoat Anti-Graffiti.
- 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. Mix until uniform.
- The product is supplied at the proper consistency for use 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 or more different lots are used, apply a final thin coat to the entire area.
- Apply by commercial grade airless sprayer, lambs wool applicator or roller. If applying by roller, use a ¼" short nap, solvent resistant, lint-free roller.
- When spraying use a cross coat technique of a horizontal spray coat followed by a uniform overlapping vertical spray coat.
- 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 film properties.
- The mixed material has a pot life of approximately 3 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, and concrete conditions, not a specific number of hours. Do not put on a second coat if the first coat is not dry.**
- Clean application equipment daily with **Certi-Vex Equipment Cleaner**.

GRAFFITI REMOVAL

Graffiti removal of surfaces coated with Powercoat Anti-Graffiti and of typical spray paints and markers is as follows:

1. Coat the graffiti area with **StarSeal Graffiti Cleaner**.
2. Allow to dwell about 15 min.
3. Scrub with a brush or wipe with a rag.
4. Second application may be necessary. Follow instructions on StarSeal Graffiti Cleaner label. Wash off the StarSeal Graffiti Cleaner with **StarSeal EF Degreaser & Cleaner**, then flush with water.
5. If the StarSeal Graffiti Cleaner is not available, use auto tar and bug removal or Xylene on a brush or rag to remove paint and marker graffiti.
6. Many markers are soluble in alcohol and should be tested with Isopropyl Alcohol for removal.
7. Areas that have been cleaned of graffiti may appear different. Original uniformity can be achieved by applying a light coat of Powercoat Anti-Graffiti.

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 (10°C) or above 85°F (20°C).
- 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, and then remove. If tape is clean the surface is dry.
- Dry-tact free Less than 6 hours
- Curing time 24 hours
- Full curing One week

COVERAGE RATES/ESTIMATING

Apply at 150-250 sq. ft. /gal (3.6-6.1 m²/L) depending on desired film thickness. Calculated final dry film thickness is based on two coats.

• **PowerCoat Primer**

Note: After application surface must have an even sheen.

	First Coat	Second Coat	Final Coverage Dry Film Thickness
Porous	200 sqft/gal 8 mils WFT	300 sqft/gal 5.3 mils WFT	125 sqft/gal 3.2 mils / 81µm DFT
Hard, Non-porous	300 sqft/gal 5.3 mils WFT	400 sqft/gal 4 mils WFT	175 sqft/gal 2.3 mils / 58µm DFT

• **PowerCoat Anti-Graffiti**

	First Coat	Second Coat	Final Coverage Dry Film Thickness
Porous	300 sqft/gal 5.3 mils WFT	300 sqft/gal 5.3 mils WFT	150 sqft/gal 5.9 mils / 149µm DFT
Hard, Non-porous	400 sqft/gal 4 mils WFT	400 sqft/gal 4 mils WFT	200 sqft/gal 4.4 mils / 111 µm DFT
Hard, Non-porous	500 sqft/gal 3.2 mils WFT	500 sqft/gal 3.2 mils WFT	250 sqft/gal 3.5 mils / 89 µm

SPECIFICATIONS/COMPLIANCE

- VOC – <340 grams/liter or 2.84#/gal (Clear)
- Meets:
 - US EPA AIM - Industrial Maintenance Coatings
 - OTC - Industrial Maintenance Coatings
 - LADCO/ MRPO - Industrial Maintenance Coatings
 - Canada - Industrial Maintenance Coatings
- Accelerated Weathering ASTM G53/G154
ASTM D523 Gloss Testing - 1500 hours
Initial Gloss 103 units(60°)
Final Gloss 103 units (60°)
ASTM D1209 - APHA Color
Initial <5
Final <50
- USDA requirements for paints and coatings for use in federally inspected meat and poultry plants.
- Freeze Thaw Resistance after 100 freeze-thaw cycles
Cracking none
Adhesion loss (intercoat) none
Adhesion loss (to substrate) none
- Removal of dried Graffiti
Marker- Black Excellent after 15min dwell time
Crayon- Black Excellent after 15min dwell time
Alkyd Paint-Black Excellent after 30min dwell time
Latex Paint-White Excellent after 30min dwell time
Spray Paint-White Excellent after 15min dwell time
Polyurethane paint-White Excellent after 1hr dwell time
- Graffiti proof – tested in accordance with Georgia DOT section 838-Graffiti Proof Coating for Concrete, Section 838.2.01 Graffiti Proof Coating.
- CSI 09 96 23 - Graffiti Resistant Coatings

SPECIAL NOTES

- For vertical applications only.
- **Warning:** Do not re-use Part B once opened. See Technical Note #TN225. Properly sealed, Part A can be re-used.
- No induction required; use immediately after proper mixing.
- PowerCoat Anti-Graffiti 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. Do not use in constant immersion applications without consulting with Vexcon Chemicals first.
- A second coat can be applied after 6 hours and within 48 hours without abrading the surface.
- Do not apply more than one coat without proper surface preparation including surface abrasion after full cure.
- For use by experienced contractors.
- Shelf Life: If properly stored in its original sealed container, one year.
- Follow all manufacturer's written dry time instructions.
- Do not apply coating when surface temperatures are below 50°F (10°C)
- Do not apply coating when surface temperatures are above 85°F (29°C)
- Do not apply coating on windy days.
- Mechanically mix well before use (jiffy- or squirrel-type mixer). Shaking is not sufficient.
- Avoid coating when adverse weather conditions are expected within 12 to 24 hours of application.
- Do not apply to frozen, frosted, or snowy surfaces.
- Delivery: Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.
- Storage: Store materials in clean, dry area. Keep containers sealed until ready for use.
- Handling: Protect materials during handling and application to prevent damage or contamination.
- Do not use materials beyond manufacturer's shelf life.
- 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.
- Prior to use contact Vexcon Chemicals for full warranty information.

PACKAGING

Mixing Ratios	Part A	Part B	Totals
Clear - Pounds	23.56	10.07	33.63
Clear - % by Wt	70%	30%	100%
Clear - Gallons	2.9	1.1	4.0
Matte - Pounds	25.94	11.12	37.06
Matte - % by Wt	70%	30%	100%
Matte - Gallons	2.8	1.2	4.0

YIELD: 4 gallons of finished coatings. When using other containers to measure smaller volumes, the above ratios must be used.

HEALTH AND SAFETY

Vexcon MSDS CP109 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 CP109 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.

- vexcon.com
- techservice@vexcon.com
- customerservice@vexcon.com
- sales@vexcon.com
- Voice: 888.839.2661
- Fax: 215.332.9997