



POWERCOAT® U 1500 V

HIGH DURABILITY • URETHANE • ANTI-GRAFFITI

VOC Content (Clear) 413 grams/liter or 3.45 #/gal.-Concrete Protective Coating

VOC Content (Pigmented) 440 grams/liter or 3.67 #/gal.-Concrete Protective Coating

DESCRIPTION

POWERCOAT® U 1500 V combines the benefits of a urethane coating with Vexcon's Powercoat breathable technology. This light duty coating is ideal for exterior vertical applications requiring UV resistance, fast drying and anti-graffiti protection.

Powercoat U 1500 V provides a high-build, coating barrier against physical abrasion, corrosion and commonly encountered acid and alkali chemicals. It also resists solvents such as gasoline, brake fluid, and alcohols. The system is ideal for use in commercial, food handling, industrial, or transportation services and other applications, wherever a coating is required to protect from graffiti. Powercoat breathable technology allows moisture vapor to pass through rather than becoming trapped, this prevents blistering and peeling.

SPECIFICATIONS/COMPLIANCE

- Meets USEPA AIM and OTC VOC regulations
- USDA requirements for paints and coatings for use in federally inspected meat and poultry plants
- VOC: (Clear) 413 grams/liter or 3.45#/gal.- Concrete Protective Coating
- VOC: (Colored) 440 grams/liter or 3.67#/gal.- Concrete Protective Coating

SPECIAL NOTES

- Powercoat U 1500 V 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.
- Do not apply below 50° F (10° C) or above 85° F (29° C)
- 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 vertical applications only. Use **Powercoat®U 1500 H** for horizontal applications
- For use by experienced applicators
- Store at room temperature.
- If properly stored in its original sealed container, one year. Rotate your stock

APPLICATION

- Powercoat U 1500 V is designed to be applied over **Certi-Vex Envio®Smooth** VOC or Emulsion as a base coat after the base coat has dried for 24 hours.
- Large cracks, repair using **Powercoat Epoxy Joint Sealant**.
- 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 U 1500 V.
- 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.
- The product is supplied at the proper consistency for spraying 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 lots are used, apply a final thin coat to the entire area.
- Apply by industrial paint sprayer, lambs wool applicator or roller. If applying by roller for best results use Vexcon's **EvenFlow Applicator** or ¼" nap mohair solvent roller.
- 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 thickness 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**.

GLOSS TESTING

1500 HOURS

Initial Gloss: 60° -103

Final Gloss: 60° -103

APHA COLOR

Initial: <5

Final: <50

BENEFITS

- Improved abrasion resistance over comparable light duty coatings
- 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 or damp concrete when used with Vexcon's **Powercoat® Primer**, a ready to use cure and prime product
- Available in Clear Gloss, Clear Semi-Gloss/Matte, French and Concrete Gray

COVERAGE RATES

Apply Powercoat U 1500 V at 100 -150 sq. ft./gal (2.5-3.8 m²/L) depending on desired film thickness. Calculated dry film thickness is based on one coat.

POWERCOAT PRIMER

200 sq.ft. /gal (5.0 m²/L) 2 mils (5 µm)
250 sq.ft. /gal (6.3 m²/L) 1.5 mils (4 µm)
300 sq.ft. /gal (7.5 m²/L) 1.3 mils (3 µm)

POWERCOAT U 1500 V

First Coat 150 sq.ft. /gal (3.8 m²/L) 6.5 mils (16 µm)
100 sq.ft. /gal (2.5 m²/L) 9-10 mils (13 µm)

Second Coat 150-200 sq.ft./gal (3.8-6.3 ml) 5-6.5 mils

PHYSICAL PROPERTIES

- Dry-Tack Free: Less than 6 hours
- Curing Time: 24 hours
- Full curing: One week
- Solids 61% by volume, 72% by weight

Note: Dry 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. **Do not apply second coat until the first coat is dry.**

GRAFFITI REMOVAL

Graffiti removal of surfaces coated with Powercoat U 1500 V and of typical spray paints and markers is as follows:

1. Coat the graffiti area with **Certi-Vex® Concrete Stripper Vertical**.
2. Allow to remain about 15 min.
3. Scrub with a brush or wipe with a rag.
4. Second application may be necessary. Follow instructions on Certi-Vex Concrete Stripper Vertical Label. Wash off the Concrete Stripper with **Certi-Vex® Super Degreaser & Cleaner**, then flush with water.
5. If the Concrete Stripper 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 U 1500 V.

CHEMICAL RESISTANCE TESTING

Powercoat U 1500 V has been tested with the following chemicals. Recommended coverage rates must be followed and no pinholes or voids in the coating. Two coats Powercoat U 1500 V @ 150 sq. ft/gallon are recommended. Do not use in constant immersion applications without consulting with Vexcon Chemicals first if chemical is not on list.

CHEMICAL 7 DAY RATING-ASTM D 1308

98% Sulfuric Acid	Discoloration No blister or film degradation
25% Caustic (NaOH)	No effect
25% Sodium Chloride	No effect
Xylene	No effect, loss of gloss no Blisters or peeling

Anti Freeze Ethelene Glycol	No effect
Gasohol	No effect
15% Muriatic Acid	No effect
Water	No effect
Skydrol 500B-4	No effect
Brake Fluid	Loss of gloss
Acetone	Loss of gloss

For other chemical resistance, contact Vexcon Chemicals.-

HEALTH AND SAFETY

Vexcon MSDS #CP108 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 #CP108, from your distributor or by contacting Vexcon Chemicals.

PACKAGING

PART A: Clear or Color: 3.24 gallons by volume in a 5 gallon pail; by weight 70%.

PART B: Clear or Color: 0.79 gallons by volume in a 1 gallon pail; by weight 30%.

YIELD: 4 gallons of finished coatings

When using other containers to measure smaller volumes, the above ratios must be used.

CONTACT US @

Additional product information, technical assistance and customer service is available by contacting Vexcon Chemicals directly or our distributors.

- www.vexcon.com
- Technicalservice@vexcon.com
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