



POWERCOAT® EPOXY UV+ “Don’t say Epoxy- say PowerCoat™”

DURABLE • CHEMICAL RESISTANT • NON YELLOWING

VOC Content (Clear) 448 gr./liter or 3.74 #/gal.-Concrete Protective Coating

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

DESCRIPTION

POWERCOAT EPOXY UV+ is a high gloss aliphatic non-yellowing epoxy that is ideal for the most demanding exterior projects. When used with Powercoat Primer the product provides a tough and durable coating with excellent adhesion, flexibility, high impact and abrasion resistance. Independent lab testing has shown that the product affords hardness and abrasion resistance comparable to typical 16-50 mil systems.

Powercoat is designed to eliminate the failures of adhesion associated with epoxy and polyurethane coatings due to moisture in concrete. Powercoat breathable technology allows moisture vapor to pass through rather than being trapped, preventing blistering, cracking and peeling. Independent tests verify that Powercoat Epoxy has 3.30 perms rating, truly an epoxy that breathes. Powercoat Epoxy UV+ retains over 90% of original gloss after 1500 hr UV exposure. Powercoat Epoxy 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 some alcohols. Ideal for use in exterior commercial, industrial, or transportation services and many other applications.

SPECIAL NOTES

- Powercoat Epoxy UV+ 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 other side. Do not use in constant immersion applications without consulting with Vexcon if chemical is not on list.
- Do not apply below 60° F (15° C) or above 85° F (29° C)
- 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
- For use by experienced applicators
- Maintenance: Clean regularly with Certi-Vex Super Degreaser & Cleaner
- Store at room temperature
- If properly stored in its original sealed container, one year. Rotate your stock

APPLICATION

- Surfaces must be primed with **Powercoat Primer**, 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 UV+.
- Large cracks, repair using **Powercoat Epoxy Joint Sealant**.
- 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.
- 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 two different lot’s 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.
- 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 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 Talc Release** until construction 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 **Certi-Vex Epoxy Non-Slip Additive**.
- For a unique and custom floor use **Certi-Vex Deco Chips**.

BENEFITS

- Superior gloss retention
- Available in clear, 17 standard and custom colors. See Vexcon Color Systems Chart
- Protect and beautify a wide variety of decorative finishes
- Non-yellowing
- Apply to new concrete for fast track project completion
- Provides excellent adhesion, flexibility, durability, and resistance to impact and abrasion
- Cures with minimum shrinkage or loss in film thickness
- Waterproof
- Vexcon’s breathable technology

COVERAGE RATES

Apply Powercoat Epoxy UV+ at 150-250 sq. ft./gal (3.8-6.3 m²/L) depending on desired film thickness. Calculated dry film thickness is based on one coat.

POWERCOAT PRIMER

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

POWERCOAT EPOXY UV+

150 sq.ft. /gal (3.8 m ² /L)	6.5 mils (16 µm).
200 sq.ft. /gal (5.0 m ² /L)	5 mils (13 µm).
250 sq.ft. /gal (6.3 m ² /L)	4 mils (10 µm).

DURABILITY & WEARABILITY TESTING

Independent lab testing has confirmed that PowerCoat System provides outstanding physical strength characteristics. The systems hardness and durability far exceeds the standard levels for the product mil levels.

Hardness, Shore A	95-96
Hardness, Shore D	84-87
Pencil hardness:	3H

Taber Abrasion

CS17 wheels

1000gr/1000 cycles	.22 grms 0.8 % loss per 1000 rev.
Wear Cycle per mil	885 or 1. 13 mil/1000 rev.

All testing based upon two coats at 200 sq.ft. /gallon.

Coating has cured 7 days.

TEST REPORT SUMMARY D/L LAB # 10760

Product: Vexcon PowerCoat **Lab:** 87A14

Coverage Rate: 150 sq./ft/gal

Set to Touch: 1 Hour (unprimed)

Tack Free: 2 Hours (unprimed)

Dry Hard: 4 Hours (unprimed) **Dry Thru:** Hours (unprimed)

ASTM D 523 Gloss: 90

Adhesion: **ASTM D4541**

primed with Vexcon PowerCoat C&S Primer @ 200 sq.ft/gal

Primed: 395 Unprimed: 350

All cohesive/substrate failures:

Salt Spray: Rating 0=Poor 10=Excellent No effect

ASTM B117--Scribed 10

ASTM D714--Unscribed 10

STEAM RESISTANCE FEDERAL SPEC. TT C 535 B

Section 3.4.10 **Steam @ 207° F**

6 hours: Rating 0=Poor 10=Excellent, no effect

Primed: 10 Unprimed: 10

Scribed no blistering, discoloration, loss of hardness or film properties

Adhesion scribed/primed

Before: 395 After: 350

Gloss Before: After Steam Test:

Primed: 85 Primed: 84

Unprimed: 90 Unprimed: 90

Weathering 200 Hrs. ASTM G53 Unprimed

Rating: 0=Poor 10=Excellent, no effect

No chalking 10

Film Characteristics: No delamination or deleterious effects

Discoloration: 200% better than control

SPECIFICATIONS/COMPLIANCE

- Meets USEPA AIM and OTC VOC regulations
- USDA requirements for paints and coatings for use in federally inspected meat and poultry plants
- ASTM D 2047 Non slip tests and ADA requirements
- ASTM-E84 Class A fire rating
- PERMEABILITY: ASTM D1653 3.30 perms
DL LABS # 11884-B

PHYSICAL PROPERTIES

- Dry-Tack Free Less than 6 hours
- Curing Time Foot Traffic 24 hours
- Curing Time Vehicle Traffic One week
- Solids Color 61% by volume, 72% by weight

Note dry time 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.

IMMERSION TESTING

Powercoat Epoxy UV+ can be immersed in the following chemicals. Care must be taken that coverage rates are as listed above and that there are no pinholes or voids in the coating. Two coats of Powercoat Epoxy UV+ @ 150 sq. ft/gallon are recommended.

CHEMICAL

98% Sulfuric Acid	30 DAY RATING 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.

PACKAGING

COLOR

PART A: Color: 3.05 gal. by volume in a 5 gal. pail; by wt 79%.

PART B: Base: .95 gal. by volume in a 1 gal.pail; by wt. 21%.

YIELD: 4 gallons of finished coating.

CLEAR

PART A: Clear: 3.2 gal. by volume in a 5 gal pail; by wt. 67%.

PART B: Base: .8 gal. by volume in a 1 gal. pail; by wt. 33%.

YIELD: 4 gallons of finished coating.

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 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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