



VEXCON
CHEMICALS, INC.

Protecting and improving concrete since 1974

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POWERCOAT® ULTRA TOP

VERTICAL & HORIZONTAL • BREATHABLE • UV PROTECTION

DESCRIPTION

Powercoat® Ultra Top is a state of the art professional grade coating designed for long term beauty and protection of concrete surfaces. Powercoat Ultra Top combines the benefits of an aliphatic 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.

Powercoat Ultra Top provides a high-build long term protective barrier against yellowing and whitening along with premium resistance to staining, heat and excellent wear resistance without looking plastic. Surface scratches and marring will quickly disappear with regular maintenance.

Ideal for any vertical and horizontal pre-cast piece of formed architectural concrete used as a decorative piece of furniture or fixture for both residential and commercial environments. It can also be used as a floor coating.

BENEFITS

- Enhances the natural beauty of concrete
- Stain resistant to food, oil and other common household products
- Heat resistance to 200° F (93.3° C)
- Abrasion resistant
- Mar resistant *
- Easy to clean and maintain
- Food safe
- Excellent UV protection
- Vertical and horizontal surfaces
- Interior and exterior applications
- Waterproof
- 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 two clear grades. A matte finish for a soft warm glow or gloss for a bold rich statement.

IDEAL FOR USE ON BOTH HORIZONTAL AND VERTICAL CONCRETE SURFACES SUCH AS:

- Countertops
- Sinks
- Vessels
- Bathtubs
- Concrete Tile
- Fire Places
- Planters
- Flooring
- Vanity Tops
- Tables
- Any pre-cast piece of formed architectural concrete used as a decorative piece of furniture or fixture for both residential and commercial environments.

SPECIAL NOTES

- **Important** – Read and follow all instructions. Any questions, contact Vexcon.
- **Warning** – Do not re-use part B once opened unless the directions in technical bulletin #TN225 are followed. Properly sealed, the part A can be re-used.
- 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.
- Powercoat Ultra Top 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 when surface and material temperatures are below 60° F or above 85° F.
- A second coat can be applied after 6 hours and within 48 hours without abrading the surface. Beyond 48 hours, the surface must be lightly sanded.
- Avoid contact with sharp objects. Cuts in the coating may require repair beyond normal maintenance practices.
- The product is supplied at the proper consistency for application and dilution will reduce efficiency.
- For use by experienced applicators.
- Store at room temperature.
- * See Maintenance/Cleaning section
- If properly stored in its original sealed container, one year.

APPLICATION

- 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.
- 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.
- Combine part B into part A. Mix combined material.
- Apply by industrial paint sprayer or roller.
If applying by roller 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.
- 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. See Dry Time section.**
- Clean application equipment daily with **Certi-Vex Equipment Cleaner**.

SECOND COAT

- The first coat must be allowed to dry a minimum of 6 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 with 200 grit paper the first coat to assure good intercoat adhesion.

SPECIFICATIONS/COMPLIANCE

- USEPA AIM and OTC VOC regulations
- USDA requirements for paints and coatings for use in federally inspected meat and poultry plants
- VOC: 413 gr./liter or 3.45#/gal.- Industrial Maintenance Coating
- FDA Title 21, Part 175
- ASTM-E84 Class A fire rating
- ADA and ASTM 2047 non-slip requirements

COVERAGE RATES & ESTIMATING

• Powercoat Primer

As a guide, application at 300 sq.ft./gal will equal 11.35 grams or .426 ounces per sq.ft. After application surface must have an even sheen.

	First Coat	Second Coat
Porous surfaces	200 sq.ft./gal.	300 sq.ft./gal.
	First Coat	Second Coat
Hard, non porous surfaces	300 sq.ft./gal.	300 sq.ft./gal.

• Powercoat Ultra Top

One gallon of product will complete an area of 150 sq. feet with two coats

	First Coat	Second Coat
Rate of application	300 sq.ft./gal.	300 sq.ft./gal.

• Smaller areas:

-To calculate by **weight**, quantity of material needed per coat based on 300 sq.ft./gal.

Gloss

Total grams-multiply total area square feet by 13
Total ounces-divide total grams by 28.4

Matte

Total grams-multiply total area square feet by 14
Total ounces-divide total grams by 28.4

Mix ratio: (Gloss and Matte)

Part A-multiply total grams or ounces by .70

Part B-multiply total grams or ounces by .30

-To calculate by **volume (in fluid ounces)** quantity of material needed per coat based on 300 sq.ft./gal.

Gloss

Total fluid ounces-multiply total area square feet by .43

Mix ratio:

Part A-multiply total ounces by .73

Part B-multiply total ounces by .27

Matte

Total fluid ounces-multiply total area square feet by .42

Mix ratio:

Part A-multiply ounces by .73

Part B-multiply ounces by .27

MAINTENANCE/CLEANING

- Do not allow spills to sit for extended periods of time.
Clean spills immediately with Vexcon's **Starseal EF Degreaser & Cleaner**. When using other general cleaners test a small area for cleaner compatibility prior to full every day use.
- *Scratches and marring can be removed after full cure by lightly scrubbing the area with a light duty non-abrasive, no scratch scour pad.
- To maintain the long term aesthetic appearance of a daily used surface such as a countertop or table, a paste wax should be used after 7 days from last coat application as a sacrificial coating.
- A cutting board is recommended to prevent cutting into the surface when using sharp knives or other sharp objects.
- Use Starseal EF Degreaser & Cleaner as an every day eco-friendly cleaner.

PHYSICAL PROPERTIES & DRY TIMES

- Dry-tack free Less than 6 hours
- Second or additional coat Within 48 hours
- Curing time 24 hours
- Full curing 7 days from last coat
- Solids 61% by volume, 72% 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) and 50% RH. See Dry Time below.

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 60° 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.

PACKAGING

Powercoat Ultra Top is available in convenient one gallon kits, four gallon units and part A and part B sold separately.

	<u>Weight</u>	<u>Volume – fluid ounces</u>	<u>Wt./gl</u>
Part A Clear:	70%	73%	8.1
Part A Matte:	70%	73%	9.3
Part B:	30%	27%	9.35

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

HEALTH AND SAFETY

Vexcon MSDS # CP142 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 # CP142, 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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