



**VEXCON**  
CHEMICALS, INC.

Concrete solutions for architects, engineers and builders since 1974  
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## PROCOAT UR

UV PROTECTION • MOISTURE TOLERANT • HEAVY DUTY

### DESCRIPTION

PROCOAT UR is a UV and abrasion resistant urethane protective top coat applied over ProCoat HBE (epoxy).

### BENEFITS

- Best gloss and color retention
- Waterproofs and protects
- Retains over 99% of its gloss after 1500 hrs of UV testing
- Best abrasion resistance
- Better chemical resistance

### MOISTURE TOLERANT

ProCoat UR features Vexcon's exclusive Breathable Technology for long-term prevention of blistering and peeling. The ProCoat moisture tolerant system is designed to reduce the adhesion failure associated with epoxy and polyurethane coatings due to moisture in concrete. (Requires ProCoat Primer) ProCoat moisture tolerant technology allows moisture vapor to pass through rather than becoming trapped, preventing blistering, cracking, and peeling. ProCoat is guaranteed to reduce moisture vapor emissions (MVER) from as high as 20# per ASTM F-1869 calcium chloride test results and 89% RH to below 3.0#/sq.ft./24hrs.

### BROADCAST SYSTEMS

Decorative multi-colored quartz aggregate and vinyl chip systems designed to provide a customized attractive and durable floor. Top coat with ProCoat HBE and optional ProCoat UR where UV resistance is required. Alternatively use natural quartz silica broadcast into ProCoat HBE pigmented base coat and sealed with epoxy clear or pigmented topcoat.

### RECOMMENDED FOR

Demanding commercial, industrial, and institutional environments that require a durable and chemical resistant seamless floor coating.

### PHYSICAL PROPERTIES

- Tack free
- Curing time – Foot Traffic
- Curing time – Vehicle Traffic
- Solids % by wt. 70% -72%
- 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.

Less than 6 hours

24 hours

One week

### MAINTENANCE

Spills should be removed promptly and cleaned. Sealed areas should be cleaned regularly, use **StarSeal EF<sup>®</sup> Degreaser & Cleaner** for all cleaning requirements.

### APPLICATION

ProCoat UR is designed to be applied as a top coat over properly applied ProCoat HBE (epoxy).

- Prior to application of ProCoat UR, ProCoat HBE must be allowed to properly dry for 24 hrs. If allowed to dry beyond this time, the surface will require 150 grit sanding.
- Prior to use pre-condition material to between 65°F (18°C) and 75°F (24°C).
- 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 part 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 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.
- Apply by sprayer which is designed for 2 component epoxy or urethane coatings. See Technical Note TN170, available at [vexcon.com](http://vexcon.com).
- Do not use pump up or light duty sprayer designed for low viscosity coatings.
- For best results use a ¼" nap solvent resistant mohair roller. Use a roller pan to take off excess product. Do not dip & roll, or pour & spread.
- If using a roller, do not overwork the material. Coat in one lapping direction only; overworked material can affect film properties.
- The mixed material has a pot life of approximately 3 hours.
- Clean application equipment daily with **Certi-Vex<sup>®</sup> Equipment Cleaner**.

### 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.

## COVERAGE RATES/ESTIMATING

Apply at 300 sq. ft. /gal (2.5-3.8 m<sup>2</sup>/L) - 5.3 mils WFT – 3.25-3.75mils DFT.

## SPECIFICATIONS/COMPLIANCE

- VOC – <340 grams/liter or 2.84#/gal (Clear)
- VOC – <340 grams/liter or 2.84#/gal (Pigmented)
- Meets:
  - US EPA AIM, OTC, LADCO/MRPO and CEPA/EC - Industrial Maintenance Coatings
- USDA requirements for paints and coatings for use in federally inspected meat and poultry plants.
- CSI 09 96 00 - High Performance Coatings

## INDEPENDENT TEST REPORTS SUMMARY

Test Method	Characteristics	Results	
ASTM D-523	Gloss Testing- 1500 hours	Initial Gloss	103 units (60°)
		Final Gloss	103 units (60°)
ASTM D-1209	APHA Color	Initial	<5
		Final	<50
ASTM D-1308	Chemical Resistance 30 day immersion	See Technical Note TN168, available at vexcon.com	
ASTM D-1653	Breathability permeability	3.30 perms (English units) 2.17 metric perms	
ASTM D-2243	Freeze Thaw Resistance (100 freeze/thaw cycles)	Cracking	None
		Adhesion Loss (intercoat)	None
		Adhesion Loss (to substrate)	None
ASTM D-4060	Abrasion Resistance (Taber Abrasser)	CS-17 wheel/1000g/1000revs/ 0.22g or 0.8% loss per 100 revs. Wear Cycles per mil – 885 cycles 1.13 mils/1000 revs	
ASTM G-53 – G-154	Accelerated Weathering (200 hrs)	No blistering: 10	
		No chalking: 10	
ASTM D-638	% Elongation	34.7 – 40%	
Note: ASTM Standard Scoring System: 10= No Effect or Perfect Performance			

## PACKAGING

Mixing Ratios	Part A	Part B	Totals
Clear - Pounds	23.56	10.07	33.63
Clear - % by Wt	70%	30%	100.00%
Clear - Gallons	2.90	1.1	4.00
Matte - Pounds	25.94	11.12	37.06
Matte - % by Wt	70%	30%	100.00%
Matte - Gallons	2.80	1.20	4.00
Color - Pounds	28.39	6.57	34.96
Color - % by Wt	81.21%	18.79%	100.00%
Color - Gallons	3.17	0.83	4.00

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

## SPECIAL NOTES

- **Warning:** Do not re-use Part B once opened. Properly sealed, Part A can be reused. See Technical Note TN225.
- **Caution:** Strong odor. Not recommended for confined, occupied or areas without adequate ventilation.
- No induction required; use immediately after proper mixing.
- ProCoat UR 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 contacting Vexcon Chemicals.
- For use by experienced contractors.
- **Shelf Life:** If properly stored in its original sealed container, one year. Rotate your stock.
- Do not use materials beyond manufacturer's shelf life.
- Follow 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.
- **Storage/ Handling:** Store in tightly sealed original factory container. Keep from freezing and exposure to moisture. Store at room temperature prior to use. Care should be taken to keep dirt, water and contaminants away from the opening of containers.
- **Delivery:** Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.
- 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.
- **Warranty:** All products are sold subject to Vexcon's published materials Limited Warranty and Terms and Conditions of Sale and can be changed without notice. You may view our Warranty's and Terms and Conditions of Sale at vexcon.com.

## HEALTH AND SAFETY

Vexcon SDS CP201 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 SDS from your distributor or visit vexcon.com.

## 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

## WARRANTY

LIMITED WARRANTY: Vexcon warrants for a period of one (1) year from the date of manufacture that the goods supplied hereunder shall be of its standard quality and free of defects, and conforms to (a) Vexcon's published specifications in force on the date of acceptance by Vexcon of the order and (b) the sample which has been made available for testing by buyer prior to sale. Any claim under this warranty must be made in writing to Vexcon Chemicals within sixty (60) days after such non-conformity is first discovered. As the EXCLUSIVE REMEDY for any breach of this Limited Warranty, Vexcon at its option shall replace nonconforming goods or refund the purchase price. Since methods of use and application are beyond Vexcon's control, this Limited Warranty IS IN LIEU OF ALL OTHER WARRANTIES EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THOSE CONCERNING MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THIS LIMITED WARRANTY IS ALSO IN LIEU OF ANY OTHER POSSIBLE LIABILITIES OF VEXCON, WHETHER ALLEGED TO ARISE BY AGREEMENT OR BY OPERATION OF LAW, RESPECTING THE SALE, APPLICATION, USE OR FUNCTION OF VEXCON'S PRODUCTS, INCLUDING BUT NOT LIMITED TO CLAIMS OF NEGLIGENCE, GROSS NEGLIGENCE, MISUSE, STORAGE DAMAGE, MISAPPLICATION, ACCIDENT, STRICT LIABILITY OR ANY OTHER TORT. No person is authorized by Vexcon to assume for it any other liability of any kind in connection with the sale or use of products manufactured and sold by it, and there are no oral agreements or warranties collateral to or affecting any sale or use. All of the foregoing arises under the substantive law of Pennsylvania without regard to principles of conflicts of laws.

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