

## **CERTI-VEX® ENVIO® RC 1000**

### **SOLVENT BASE VOC RESIN-BASE DISSIPATING CURE**

#### **DESCRIPTION**

Vexcon Chemicals manufactures **CERTI-VEX ENVIO® RC 1000** from low molecular weight hydrocarbon resins produced in-house and blended with a proprietary mix of solvents and additives. Certivex Envio® RC 1000 will meet the VOC Cure Levels of 350 grams/liter and still be sprayable. Envio RC 1000 is a solvent based curing compound, curing at colder below freezing temperatures will not effect the performance of the product. The finished product is applied to the freshly placed concrete surface forming a tough, continuous, protective membrane. This film acts as a barrier allowing for low moisture transmission and maximum development of the concrete's strength and wear resistance during the early hardening stage. The protective film will not discolor the concrete and dissipates as exposed to light, other natural elements and construction traffic. Ideal for use on all interior and exterior concrete where an economical non-permanent cure, meeting ASTM C-309 Type 1 or 1D, Class A&B and AASHTO M-148 and CRD-C 300.

#### **BENEFITS**

- Solvent base meets VOC
- Cold weather curing compound
- Low viscosity for easy spraying
- Provides for complete development of concrete's wear resistance and strength properties
- Low moisture transmission rates
- Quick drying
- Prevents efflorescence, dusting and spalling
- Available with a factory supplied red fugitive dye to aid in verification of application
- Economical
- Available to meet requirements of various state D.O.T.'s
- Manufactured in Vexcon's computer controlled facility to ensure certified performance

#### **APPLICATION**

- Apply as soon as possible after concrete receives final finishing, just as the water sheen disappears.
- If application is delayed concrete must be kept wet, preferably by water spray mist, until the product is applied.
- Do not add thinner as product is supplied at the proper consistency for spraying. Dilution will reduce curing efficiency.
- Thoroughly mix by air or mechanical methods before use to ensure best results and ease of application.
- Apply by brush, roller or sprayer, however, application by sprayer is preferred.
- Apply at 200 sq.ft. /gal. (7.5 m<sup>2</sup>/L) or less depending on method of application and specification requirements.
- Contact Vexcon or your distributor for assistance in product application techniques.
- **COAT UNIFORMLY -LEAVE NO GAPS**

#### **SPECIFICATIONS/COMPLIANCE**

- VOC <350 gram/liter or <2.92#/gal
- • Meets EPA & AIM VOC regulations
- ASTM C-309 Type I or ID, Class A&B
- AASHTO M-148 and CRD-C 300
- ASTM D3960
- DL LAB Report – DL-14274B2
- CSI: [03 39 23.13]

#### **TOPCOATS AND ADHESIVES**

- Certivex Envio RC 1000 is a dissipating curing compound that will slowly flake off after exposure to UV, weathering and/or construction traffic.
- Topcoats and adhesives are not recommended for use over Certivex Envio RC 1000 unless the entire surface area is free of residue.
- Residue should be removed by wire brushing or by using **Certi-Vex Concrete Stripper**.
- For alternative methods of removal, contact the manufacturer.
- Certivex Envio RC 1000 should not be used as a sealer. Use **Certi-Vex AC 1315** or **StarSeal® 1315** for sealing applications.

#### **SPECIAL NOTES**

- If Certivex Envio RC 1000 is supplied with a red fugitive dye, do not use for interior applications. Dye will disappear after prolonged exposure to sunlight.
- Can be applied to 20°F keep material @ 60-70°F prior to use.
- For Use By Professional Applicators.
- Shelf Life: If properly stored in its original sealed container, three years from date of manufacture. Rotate your stock.
- 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.

#### **PACKAGING**

Certivex Envio® RC 1000 is available in 55-gallon drums and 5-gallon pails. Contact Vexcon directly to discuss your customized packaging requirements.

## PHYSICAL PROPERTIES

- Color: Light amber
- Solvent: Proprietary and Acetone
- Dry time @ 200 sq. ft/ gallon: 30 Minutes
- Water Retention@ 350 sq.ft. /gal: 0. 47 kg/cm 2
- Solids: 46% by ASTM D 2369
- Wt/gal: 7.73± .05
- Equipment clean up: Certi-Vex Equipment Cleaner

## VITAL STATISTICS

- Flash Point: 1.4°F
- Boiling Point : 133°F (56°C)
- Autoignition Temp: ND
- Extinguishing Media: Foams, Dry chemical, CO<sub>2</sub>, Water Fog.

## HEALTH AND SAFETY

### CAUTION FLAMMABLE LIQUID

- Resin solution, flammable liquid, red label
- Use of respirators is mandatory when using this product in confined areas.
- Use only with adequate ventilation.
- If swallowed, do not induce vomiting.
- Use of gloves, goggles and other protective clothing is advised when using this product.

Vexcon SDS CC104 is an integral part of the safety and application of our product. A short synopsis is provided in this product data sheet. Before using product, it is advisable to obtain a copy of the SDS from your distributor or download at [vexcon.com](http://vexcon.com).

## LABORATORY TEST REPORT

Material:	CERTI-VEX® ENVIO RC		
Date Submitted:	October 1, 1986		
Method of test:	ASTM C-309, Type I and AASHTO M-148, Type 1, liquid membrane forming concrete curing compounds.		
RESULTS TEST:	RESULTS	ASTM C-309	AASHTO M-148
		REQUIREMENTS	REQUIREMENTS
Dry Time: Touch	25 min.	4 hours max.	4 hours max.
Dry Time: Tack Free	70-min.	12 hours max.	12 hours max.
Moisture Retention: (kg/m <sup>2</sup> per 72 hours)	0.4733	0.55 max.	0.55 max.

COMMENTS: Material meets ASTM C-309 and AASHTO M-148 specifications for type #1 liquid membrane forming compounds for curing concrete.

## CONTACT US @

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

- [vexcon.com](http://vexcon.com)
- [techservice@vexcon.com](mailto:techservice@vexcon.com)
- [customerservice@vexcon.com](mailto:customerservice@vexcon.com)
- [sales@vexcon.com](mailto: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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