

## **CERTI-VEX ENVIO<sup>®</sup> CURE 100•500•1000**

### **DISSIPATING CLEAR CURING COMPOUND**

#### **DESCRIPTION**

Construction projects demand water based clear curing products that are D.O.T. approved, meet VOC requirements, are easy to apply, quick drying and cost effective. Vexcon's complete line of curing compounds meet the most demanding specifications and current environmental standards for new concrete.

During concrete's early hardening stage, our curing compound's protective film ensures low moisture transmission allowing for maximum development of the concrete's strength and wear resistance. Our curing compounds have a long and successful track record for providing consistent results and durable, long-lasting concrete.

Certi-Vex Envio Cure is available in a wide range of formulations and packing options to meet the varying needs of today's projects.

#### **BENEFITS**

- Provides for complete development of concrete's wear resistance and strength properties
- Prevents efflorescence, dusting and spalling
- Low moisture transmission rates
- Available with a factory supplied red fugitive dye to aid in verification of application
- Economical
- Quick drying

#### **RECOMMENDED FOR**

- Walls, columns, median barriers
- Residential and commercial concrete
- Sidewalks, curbs and gutters
- Bridge decks and parapet walls
- Interior and exterior concrete

#### **APPLICATION**

- Apply Certi-Vex Envio Cure as soon as possible after the concrete receives its final finishing, just as the water sheen disappears.
- Do not add thinner as the product is supplied at the proper consistency for spraying. Dilution will reduce curing efficiency.
- Thoroughly mix Certi-Vex Envio Cure by air or mechanical methods before each use to ensure best results and ease of application.
- Apply by brush, roller or sprayer; however, application by sprayer is preferred. The sprayer should generate at least 40 psi (275 kPa) and spray 1/2 gallon (2 L) of material per minute. The Chapin model 1949 or equivalent is recommended.
- **COAT UNIFORMLY - LEAVE NO GAPS**

#### **ESTIMATING**

- Apply at 200-300 sq.ft. /gal. (5.0-7.5 m<sup>2</sup>/L) or less depending on the method of application or specification requirement.

#### **SPECIFICATIONS/COMPLIANCES**

All grades of Certi-Vex Envio Cure

- VOC <350 grams/liter or <2.92 #/gal
- Meets
  - US EPA AIM – Concrete Curing Compound
  - OCT – Concrete Curing Compound
  - LADCO/MRPO – Concrete Curing Compound
  - CEPA/EC – Concrete Curing Compound
  - CARB – Concrete Curing Compound
  - SCAQMD – Rule 1113 – Concrete Curing Compound for roads & bridges
- Ohio EPA Code 3745-83-09 – approve for contact with public drinking water systems.
- Contact Vexcon for current state D.O.T. approvals.
- CSI – 03 39 23.13

**Certi-Vex Envio Cure 100:** A clear hydrocarbon 100% resin based curing compound that is easily applied and dries quickly to a uniform film. Meets the requirements of ASTM C-309 Type 1 or Type 1D Class A&B and AASHTO M-148 Type 1 Class A&B.

**Certi-Vex Envio Cure 500:** A premium clear 100% resin based curing compound designed to meet the toughest performance and testing requirements. The product is easy to use, quick drying and resists moisture loss to the lowest levels to ensure the concrete reaches maximum hardness, wear resistance and strength properties. The product is ideal for use where top performance is needed or to meet the strictest specifications of testing agencies. Meets ASTM C-309 Type 1 or Type 1D Class A&B and AASHTO M-148 Type 1 Class A&B. Is available pre-approved by many state Departments of Transportation.

**Certi-Vex Envio Cure 1000:** Meets the specification of US Army Corps. of Engineers CRD-C-300 in addition to meeting all the specifications above.

#### **SHORT SPECIFICATION**

03 39 23.13: Clear membrane forming dissipating curing compound, complies with ASTM C 309, Type 1, Class A & B, AASHTO M-148, Type 1. Manufactured by Vexcon Chemicals.

## SPECIAL NOTES

- Certi-Vex Envio Cure will slowly flake off after exposure to UV, weathering and traffic.
- If Certi-Vex Envio Cure is supplied with a red fugitive dye, do not use for interior applications. Dye will disappear after prolonged exposure to UV.
- Topcoats or adhesives are not normally used over curing compounds and are not recommended for use over Certi-Vex Envio Cure.
- If Certi-Vex Envio Cure must be removed, power washing, brushing or use **StarSeal® EF Stripper** is recommended.
- To clean equipment: When wet use water. When dry use **Certi-Vex Equipment Cleaner** and flush with water.
- Mix well before each use.
- Do not thin this product.
- Avoid storing and using during periods of excess heat.
- Do not apply on excessively windy days
- It is recommended that Vexcon **Certi-Vex Envio Assist**, evaporation retarder be used when excessive heat or wind is anticipated during application.
- For best application results, surface temperatures should be between 40°F to 85°F (4.4°C to 29°C).
- Shelf Life: If properly stored in its original sealed container, one year. 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

Certi-Vex Envio Cure is available in 275-gallon totes, 55-gallon drums and 5-gallon pails. Contact Vexcon directly to discuss your customized packaging requirements.

## VITAL STATISTICS

- Flash Point >200° F (93° C), TCC
- Boiling Point 200° F (93° C) Azeotrop
- Autoignition Temp ND
- Extinguishing Media Foam, CO<sub>2</sub>, Water Fog or spray

## HEALTH AND SAFETY

- Use only with adequate ventilation.
- Use of gloves, goggles and other protective clothing is advised when using this product.
- If swallowed, do not induce vomiting.

Vexcon MSDS CC105 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 MSDS CC105 from your distributor or by contacting Vexcon.

## LABORATORY TEST REPORT

Material Certi-Vex Envio Cure  
Date Submitted October 1, 1986  
Method of test ASTM C309, Type 1 and AASHTO M-148, Type 1, liquid membrane forming concrete curing compounds.

PROPERTY	TEST RESULTS	ASTM C309 and AASHTO M-148 REQUIREMENTS
Dry Time: Touch	25 min.	4 hours max.
Dry Time: Tack Free	70 min.	12 hours max.
Moisture Retention: (kg/m <sup>2</sup> per 72 hrs)	0.4733	0.55 max.

COMMENTS: Material meets ASTM C309 and AASHTO M-148 specifications for Type #1 liquid membrane forming compounds for curing concrete.

## PHYSICAL PROPERTIES

Color Bright Yellow or Pink if with dye  
Dry time <45 min  
@ 200 sq. ft/ gal  
Water Retention 0.47 kg/m<sup>2</sup>  
@ 350 sq.ft./gal  
Solvent Emulsion  
Wt/gal 8.29 lbs/gal.

## 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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