



Performance Construction Chemicals

## CERTI-VEX ENVIO® BLOCK FILL EMULSION

Masonry Block Fill • Meets Wind Driven Rain Text • Meets TTF-1098

VOC Content 92 gr/liter or 0.77 #/gal. - Concrete Protective Coating

### DESCRIPTION

The most important link in the waterproofing coating chain is the material that is applied to the concrete. Use the only leading block fill that meets wind driven rain test of Federal Specification 1098. **CERTI-VEX ENVIO® BLOCK FILL EMULSION** is a styrene acrylic, high-build, emulsion coating applied to masonry block concrete to fill in the pores and capillaries and provide a uniform, sealed surface. It contains non-asbestos fibers, which assist in bridging holes and voids, and provides an excellent bond between the block and subsequent topcoats. Available in two versions to meet your requirements, both of which meet Federal Specification 1098-Wind driven Rain Test: Smooth or Fibered For a complete decorative waterproofing system topcoat with **Certi-Vex® Envio smooth VOC or Certi-vex® Envio Smooth Emulsion** to meet TTC-555B.

### BENEFITS

- Meets TTF-1098 Wind driven Rain Test
- Flexible and Durable
- Provides an excellent bond between the block and subsequent topcoats
- Apply over fresh concrete and mortar
- Covers most surface blemishes and imperfections
- One Coat
- Ready Mixed
- VOC compliant
- Accepts Most Topcoats
- Can apply to 40°F

### APPLICATION

Follow surface preparation directions prior to application. Apply by spray equipment using equipment specified or Vexcon approved equal (refer to equipment section).

**Material must be stirred or agitated thoroughly before use.** If spraying is not possible, apply to dry and clean masonry block by brush, roller or trowel at the rate of 50 sq. ft./gallon. Begin application from the highest point. Apply a significant amount of product to completely cover the surface area. Succeeding passes must lap the previous run down. Smooth the surface with a brush or trowel to form a uniform and level surface. Back rolling the Certi-Vex Envio Block Fill Emulsion may be necessary to close and cover all pores.

**ALL PROPERTIES ARE DEPENDENT ON ACHIEVING A PINHOLE FREE SURFACE.**

### TTF-1098 TEST RESULTS

#### DL LABS-11884A

The following observations were noted after each of the coatings were exposed for 8 hours to wind driven rain equivalent to a 98 mile per hour wind pressure.

Coating-----> **Certi-Vex Block Fill Emulsion Smooth**

Dampness on panel backs	None
Appearance of water on backs	None
Water leakage	None

#### Conclusion

The submitted coating, namely; Certi-Vex Envio Block Fill Emulsion Smooth exhibits a wall performance rating of Excellent (E) as outlined in Par, 4.3.6.4 of Federal Specification TTF-001098.

### SPECIFICATIONS/COMPLIANCE

- Meets EPA and AIM regulations
- Certi-vex Envio Block Fill Emulsion may be specified as a block filler for use on exterior or interior masonry or metal surfaces to achieve a decorative high build coating.
- Meets Federal Specification TTF 1098 for block fill. All performance specifications and waterproofing characteristics are based on pinhole free applications.
- VOC Compliant: 92 gr/liter or 0.77 #/gal. - Concrete Protective Coating

### COVERAGE

50-60 sq.ft./gal (1.25-1.5 m<sup>2</sup>/L)

### PHYSICAL PROPERTIES

- Dry time: Let dry overnight before topcoating
- Dry to touch: 1 - 3 hours
- Recoat: 24 hours
- Solids: wt% 78±1%
- Solids Volume: 60%
- Wt/gal: 13.5 # /GAL.
- Reducer: Use Water
- DFT: @ 50-60 sq.ft. /gal. =16-19 mils

### EQUIPMENT CLEANING

Certi-vex Envio Block Fill Emulsion will not set up or harden in spraying pumps or hoses overnight, however, spray guns and nozzles should be cleaned daily. The spray systems should be adequately flushed by pumping water through the entire system until pump, hoses and gun are free of residue. If dried, use **Certi-Vex® Equipment Cleaner**.

## **SURFACE PREPARATION**

New masonry surfaces should be cleared of all foreign materials such as oil, grease, asphalt, mud and powdery substances. On old or existing masonry or concrete surfaces where there is loose scaly residue, sandblasting or wire brushing may be necessary. Small cracks, voids and blemishes may be filled by troweling **Certi-Vex® Smooth** or **Certi-Vex Patch® RTU** with a large flat bladed spatula. Large holes and damaged areas should be repaired by grouting or trowel filling with **Certi-Vex Patch RTU**. Plywood and wood materials must first be primed with Vexcon **StarSeal® 1315** or **Certi-Vex® AC 1315**

## **SPRAYING EQUIPMENT DATA**

### **PUMPS:**

Electric: Titan Powertwin: 4500-5500-10,000  
Air: Graco Bulldog 33:1  
Gas: Graco 5000-7000, & 10,000 – Graco GM 1030 with quick change GM 3012 Kit.

\* NOTE: Remove all filters prior to spraying

Tip: .040-.045  
Fluid Hose 3/4 in. (19mm) ID  
Air Hose: 3/8 in. (10mm) ID  
Air Pressure: 80 LB's minimum 25 CFM  
Spray equipment must be cleaned and maintained in accordance with manufacturers directions.

Consult VEXCON for additional recommendations on spraying equipment and techniques on Certi-Vex Block Fill Emulsion fibered.

## **PACKAGING**

Certi-Vex Envio Block Fill Emulsion is available in 50-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, Azeotrope: MS & water 200° F (93° C)
- Autoignition Temp: ND
- Extinguishing Media: Foam, CO<sub>2</sub>, Water Fog or spray

## **HEALTH AND SAFETY**

This product is a solvent-in-water emulsion. All precautions provided are for the solvent portion, of which this product contains less than 7%.

Vexcon MSDS #VW108 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, #VW108, from your distributor or by contacting Vexcon Chemical .

## **CONTACT US @**

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

- [www.vexcon.com](http://www.vexcon.com)
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## **SHELF LIFE**

If properly stored in its original sealed container, one year. Rotate your stock.