

CERTI-VEX ENVIO® BLOCK FILL VOC

MASONRY BLOCK FILL • MEETS WIND DRIVEN RAIN TEST TT-C-555

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 VOC** 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 TT-C-555 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 Fed. Spec. TT-C-555 B.

BENEFITS

- Meets all the performance requirements of Federal specification TT-C-555 wind driven rain test
- Flexible and durable
- Provides an excellent bond between porous substrates and top coating
- Apply over fresh concrete and mortar
- Provides a uniform background and sealed surface
- One coat application
- Ready mixed
- Accepts most topcoats
- Can apply to 20°F (-6°C)
- Fills in pores and capillaries

SURFACE PREPARATION

- Surfaces should be cleared of all foreign materials such as oil, grease, asphalt, mud and powdery substances using one of Vexcon's quality cleaners; **StarSeal® Masonry & Brick Cleaner**, **Certi-Vex Concrete Stripper Vertical** or **Certi-Vex Super Degreaser & Cleaner**.
- 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 Envio Tex** or **Certi-Vex Patch RTU** with a large flat bladed spatula.
- Large holes and damaged areas should be repaired using one of Vexcon's high quality repair mortars.
- Plywood, wood and metal surfaces should be primed with **Certi-Vex AC 1315** or **StarSeal 1315**

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 50sq.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 VOC may be necessary to close and cover all pores.

SPECIFICATIONS/COMPLIANCE

VOC <400 grams/liter or <3.22 #/gal.

- MEETS:
 - USEPA AIM - Waterproofing Sealers and Treatments
 - OTC - Waterproofing Concrete/Masonry Sealers
 - LADCO - Waterproofing Concrete/Masonry Sealers
 - Canada - Waterproofing Concrete/Masonry Sealers
- Certi-Vex Envio Block Fill VOC 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 TT-F 1098 for block fill
- Meets Federal Spec. TT-C-555 wind driven rain test
- CSI reference: 09 97 23 - Concrete and Masonry Special Coatings

SPECIAL NOTES

- All performance specifications and waterproofing characteristics are based on pinhole free applications.
- 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

COVERAGE

50-60 sq.ft./gal (1.25-1.5 m²/L)

EQUIPMENT CLEANING

Certi-Vex Envio Block Fill VOC 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**, and then flush with water.

INDEPENDENT TEST DATA

TTF-1098 TEST RESULTS

DL LABS-11884A

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

Coating-----> Certi-Vex Block Fill VOC

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

Conclusion

The submitted coating, namely; Certi-Vex Envio Block Fill VOC Smooth exhibits a wall performance rating of excellent (E) as outlined in Par. 4.3.6.4 of Federal Specification TT-F-1098.

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 lbs 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 VOC fibered.

PACKAGING

Certi-Vex Envio Block Fill VOC is available in 50-gallon drums and 5-gallon pails. Contact Vexcon directly to discuss your customized packaging requirements.

VITAL STATISTICS

- Flash Point 106°F (41°C) Closed cup
- Boiling Point 310-495°F (154-257°C)
- Autoignition Temp Above 473°F (245°C)
- Extinguishing Media Foam, dry chemical, CO₂, water may be used to reduce the rate of burning and for cooling containers.

PHYSICAL PROPERTIES

- Dry time Let dry overnight before topcoating
- Touch 1 - 3 hours
- Recoat 24 hours
- Solids by Wt% 78%
- Solids by Volume % 52%
- Wt/gal 12.5 #gal.
- DFT @ 50-60 sq.ft./gal 16-19 mils
- Solvent Reducer: Certi-Vex Equipment Cleaner

SHELF LIFE

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

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 VW107 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, VW107, from your distributor or by contacting Vexcon Chemical.

CONTACT US @

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

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WARRANTY

Vexcon warrants that the goods supplied hereunder shall be of its standard quality and shall conform in all material respects to the sample which has been made available for testing by buyer prior to sale. As the EXCLUSIVE REMEDY for any breach of this Limited Warranty, Vexcon 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 EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THOSE CONCERNING MERCHANT ABILITY 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 OR NEGLIGENCE, GROSS NEGLIGENCE, STRICT LIABILITY OR ANY OTHER TORT. IN NO EVENT SHALL VEXCON BE LIABLE FOR PERSONAL INJURY OR PROPERTY DAMAGE, REAL OR PERSONAL, ATTRIBUTED TO ITS PRODUCTS, NOR FOR ANY EXCAVATION, REMOVAL, REAPPLICATION, DOWN TIMES, CLEANUP, LOSS OF USE, LOSS OF OPPORTUNITY, LOSS OF MARKET VALUE, LOSS OF RENTAL VALUE OR FOR ANY LOSS OF PROFITS OR OTHER SPECIAL, INCIDENTAL, RESULTING, CONSEQUENTIAL OR EXEMPLARY DAMAGES. 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.