

CERTI-VEX ENVIO® BLOCK FILL EMULSION

MASONRY BLOCK FILL • MEETS WIND DRIVEN RAIN TEST TT-F-1098

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 all the performance requirements of Federal specification TT-F-1098 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 40°F (4.4° 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**, **StarSeal EF Stripper V**, or **StarSeal EF 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 Emulsion may be necessary to close and cover all pores.

SPECIFICATIONS/COMPLIANCE

VOC - <300 grams/liter or <2.50#/gal.

- MEETS:
 - USEPA AIM - Waterproofing Sealers and Treatments
 - OTC - Waterproofing Concrete/Masonry Sealers
 - LADCO - Waterproofing Concrete/Masonry Sealers
 - Canada - Waterproofing Concrete/Masonry Sealers
 - CARB - Waterproofing Sealers, Concrete/Masonry
- 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, wind driven rain.
- 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

50-60sq.ft./gal (1.25-1.5 m²/L)

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**, then flush with water.

INDEPENDENT TEST

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 Description	Certi-Vex Block Fill Emulsion Smooth
Dampness on panel backs	None
Appearance of water on backs	None
Water leakage	None

Conclusion

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 TT-F-001098.

SPRAYING EQUIPMENT

PUMPS:

Electric :	Titan Powertwin: 4500-5500-10,000
Air:	Graco Bulldog 33:1 Graco 5000-7000, 10,000
Gas:	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 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. N/D
- Extinguishing Media Regular Foam, CO₂, Water Fog or Spray

PHYSICAL PROPERTIES

- Dry time Let dry overnight before topcoating
- Dry to touch 1 - 3 hours
- Recoat 24 hours
- Solids by Wt% 73%
- Solids Volume 66%
- Wt/gal 13.5#/gal.
- Reducer Use Water
- DFT @50-60sq.ft./gal 16-19 mils

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 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 and customer service is available by contacting Vexcon Chemicals directly, or our distributors.

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WARRANTY

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