

STARSEAL® 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. **STARSEAL 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® HBC Smooth** or **StarSeal HBC 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) and rising
- Fills in pores and capillaries

SURFACE PREPARATION

- Surfaces should be cleared of all foreign materials such as oil, grease, asphalt, atmospheric stains, dirt and powdery substances using one of Vexcon's **Concrete and Masonry Cleaners**. For more information go to vexcon.com/cleaners.
- 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 HBC Textured** 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 StarSeal Block Fill Emulsion may be necessary to close and cover all pores.
- Do not apply if rainfall is imminent or on frosted or frozen surfaces. Properly applied in accordance to conditions, rain resistance 6-8 hrs. based on our Physical Properties date reporting.
- Can be applied when air and surface temperatures are 40°F (4°C) - 85°F (29°C). If air and surface temperatures are below 40°F (4°C) or above 85°F (29°C), please consult Vexcon's Cold Weather Application Guide (TN195) or Hot Weather Application Guide (TN194).

COVERAGE

50-60sq.ft./gal (1.25-1.5 m²/L)

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
 - CEPA/EC - Waterproofing Concrete/Masonry Sealers
 - CARB - Waterproofing Sealers, Concrete/Masonry
- StarSeal 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.
- ASTM C-1315 Class A, Type II
- CSI reference: 09 97 23

SPECIAL NOTES

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

EQUIPMENT CLEANING

StarSeal 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	StarSeal Block Fill Emulsion
Dampness on panel backs	None
Appearance of water on backs	None
Water leakage	None

Conclusion

StarSeal Block Fill Emulsion 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
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 manufacturer's directions.

Consult Vexcon for additional recommendations on spraying equipment and techniques on StarSeal Block Fill Emulsion fibered.

PACKAGING

StarSeal 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, Zoetrope MS & water 200°F (93°C)
- Auto ignition Temp. N/D
- Extinguishing Media Regular Foam, CO₂, Water Fog or Spray

PHYSICAL PROPERTIES

- Dry time Let dry overnight before top coating, check for completeness of dry prior to recoating.
- Dry to touch 1 - 3 hours
- Solids by Wt% 73%
- Solids Volume 66%
- Wt/gal 13.5#/gal.
- Reducer Use Water
- DFT @50-60sq.ft./gal 16-19 mils

Note: Dry time and curing time depends on air temperature and film thickness. All calculations based upon 68-77°F (20-25°C) at 50%RH. Low temperatures and relative humidity will extend dry time.

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 SDS 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 SDS from your distributor or download at vexcon.com.

CONTACT US @

Additional product information, technical and customer service is 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.

LIMITATION OF LIABILITY: IN ALL EVENTS VEXCON'S LIABILITY SHALL BE LIMITED TO THE PURCHASE PRICE OF PURCHASED PRODUCTS. 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.