



**VEXCON**  
CHEMICALS, INC.

Protecting and improving concrete since 1974

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## STARSEAL® ENVIO BOND

### ACRYLIC BONDING AGENT

VOC content: 0 grams/liter

#### DESCRIPTION

**STARSEAL ENVIO BOND** is a ready to use technically advanced re-emulsifiable modified vinyl acrylic emulsion polymer. StarSeal Envio Bond provides versatility by forming a bond between the cement based floor and overlayers, toppings, patches, leveling compounds, stucco, terrazzo and mortar. It provides both chemical adhesion and mechanical bonding between two surfaces and is hard, tough, flexible, and resistant to UV. It also resists damage from freeze-thaw cycles, cracking and shrinkage.

#### BENEFITS

- Non-yellowing
- Resists most common industrial chemicals, heat and freeze-thaw cycles
- Use indoors and out on vertical and horizontal concrete
- Ideal when bonding is delayed
- Topping can re-emulsify so the two cement surfaces form a strong bond

#### APPLICATION

- Surfaces must be clean and structurally sound prior to application.
- Prior to application a test area must be performed to determine proper application rate and required surface preparation. Coated area must be free of efflorescence, waxes, oils and internal dampness, paints, laitance or rust. Excessive efflorescence may require the use of one of Vexcon's concrete cleaners and stain removal products to properly clean the surface prior to application. Use **StarSeal® EF Stripper** to remove old sealers, epoxies, urethanes, adhesives, curing compound and floor waxes.
- Pre-dampen surface then apply. StarSeal Envio Bond without thinning at a rate of 200 sq.ft./gal.
- Apply by brush, roller or industrial spray in a continuous unbroken film.
- Allow to dry 4-8 hours however, do not allow material to dry completely, then apply topping material. If film has dried reapply a thin coat of. StarSeal Envio Bond and put on topping mix immediately.

#### SUBSTRATE PRIMING FOR UNDERLAYMENT/PATCH

StarSeal® Envio Bond should be applied up to 72 hours before underlayment application. One gallon of bonding agent mixed with one gallon of clean water will cover approximately 350-400 sq. ft. of floor area. Apply a thin primer coat and allow to completely dry (at least 3-4 hours @ 70% relative humidity) prior to application. Extremely porous concrete may require two coats of primer mixture or one coat of undiluted primer. Do not apply Certi-Vex SLU TC or SLU 500 until primer is dry.

#### SPECIFICATIONS/COMPLIANCE

- Meets USEPA, AIM and OTC VOC regulations
- Federal specifications: MiL-B-19235 Bonding Compound Concrete
- GSA Specification for Bond Adhesive
- ASTM C1059-91 Type I for bonding agents
- CSI reference: 03 31 00, 03 54 00

#### SPECIAL NOTES

- Do not apply below 50° F (10° C)
- StarSeal Envio Bond mixes must have control joints to ACI standards at least every 200 sq.ft.(18.6 m<sup>2</sup>) to prevent cracking
- StarSeal Envio Bond is not designed for continuous water or chemical immersion cure
- Moisture cure only. Do not use curing compounds or membranes
- StarSeal Envio Bond should be protected from rain for 72 hours after application
- Keep from freezing
- StarSeal Envio Bond should not be used as an admixture-Vexcon recommends our product **StarSeal® Envio Strong** product data sheet #AB102
- If properly stored in its original sealed container, one year from date of manufacture. Rotate your stock.
- For use by experienced applicators only
- 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.

#### VITAL STATISTICS

- Flash Point: NA
- Boiling Point: 215° F (101° C)
- Autoignition Temp: ND
- Extinguishing Media: Foams, Dry Chemical, 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 #RP101 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 from your distributor or by contacting Vexcon Chemicals.

#### CONTACT US @

Additional product information, technical assistance and customer service 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.

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