



STARSEAL[®] EZ LIFT

TILT UP • LIFT SLAB • PRECAST

DESCRIPTION

STARSEAL EZ LIFT is an efficient, fast track non-membrane forming, reactive water base bond breaker specifically formulated for tilt up, lift slab and pre-cast concrete construction.

This quick drying material is chemically engineered to provide superior performance for easy lifting of tilt wall panels from properly designed, finished and cured concrete casting beds.

BENEFITS

- Excellent chemical and lubricating positive release for exceptional wall panel appearance
- Excellent performance on most types of concrete finishes
- Fugitive dye added for ease of application
- Fast drying for optimum concrete pour scheduling
- Low odor
- Low VOC

VEXCON TILT UP ADVANTAGE

- Concerns regarding mix design, surface finishing, coverage rates and the “osmotic effect” are greatly reduced with the Vexcon tilt up system.
- Unlike other bond breakers, Vexcon paints and coatings can be applied immediately to the casting bed and after three days to the wall panels.
- Cracking, carbonization, curling, and cracking are significantly reduced
- Lower installed square foot cost
- Enhance, protect and beautify finished wall panels with Vexcon’s designer color palette of compatible vertical protective coatings and treatments
- Long shelf life

APPLICATION NOTES

- Prior to application, read, and follow all current (verify literature is most up to date) application instructions, special notes, and precautions in this data sheet, on the MSDS, and on the label of the container prior to use.
- Apply using a low-pressure pump-up type sprayer. The sprayer must be clean. If cleaning is required, use **Certi-Vex[®] Equipment Cleaner** flush with water. The tip size must be able to produce a well atomized spray pattern. The sprayer must be kept under sufficient pressure to correctly atomize without streaming, tailing, or spitting. A 1/2 (0.5) gal. /minute tip is generally recommended for most applications.
- Test applications should always be made by the end user/purchaser prior to overall use of the bond breaker.
- Mix well before each use.
- Do not dilute.

CASTING SLAB PREPARATION AND FINISHING

- Casting slab concrete should have a hard trowel finish. If a coarse broom or extremely rough texture concrete finish is used, an additional bond breaker coat may be required for optimum release performance.
- The slab must be properly cured and sealed meeting ASTM C-309 for proper curing of new concrete using **Certi-Vex AC 25** or **StarSeal 309** prior to the application of StarSeal EZ Lift. Follow specific instructions contained in product data sheet CS119 or CS100 for new concrete. Allow product to dry prior to applying bond breaker.

BOND BREAKER APPLICATION TO CASTING SLAB

- The concrete must be properly cured and sealed with **StarSeal 309**.
- The sealed concrete should be completely cleaned of dust, dirt, contaminants and foreign objects prior to the bond breaker application.
- The first coat of StarSeal EZ Lift should be applied at a rate of 400 sq. ft. / gal. with a roller or sprayer and allowed to dry tack free but slightly slippery.
- After the first coat is dry, a second coat should be applied in the same manner, at a rate of 600 sq. ft. / gal. in an opposite direction or 90° to the application direction of the first coat.

DRY TIMES/WEATHER AND CLIMATE CONDITIONS

- Drying time for the first coat is 60 minutes at 70°F (21° C), with dry time for the second coat approximately 40 minutes at 70°F (21° C).
- Relative humidity, surface and air temperature will affect dry time. High humidity and lower temperatures will extend dry times. Low humidity and high temperatures will reduce dry times.
- Surface temperatures can vary significantly from ambient. Do not apply if surface temperatures are below 40°F (4° C) or above 85°F (29°C). For temperatures below or above these ranges contact Vexcon prior to application.
- Do not apply in cases of high wind, rain or if rain is forecast within 12 hours of the application. If this occurs additional coats may be necessary.

CASTING SLAB TESTING

- Prior to wall pouring StarSeal EZ Lift must be checked by the application of water droplets to several areas on the casting slab surface.
- If water beads, similar to how a newly waxed car would look, and does not penetrate or soak into the concrete surface and has a uniform appearance, the application is sufficient to proceed with concrete placement.
- If water soaks into the casting slab surface or a noticeable color change is apparent, additional material should be applied prior to placing lift slab concrete.

PAINT/COATING TILT PANELS

- After proper cleaning, Vexcon paints and coatings can be applied immediately to the casting bed and after three days to the wall panels.
- Walls should be cleaned by power washing to remove all dirt, contaminants and excess bond breaker residue. Power washing with a minimum of 3500 psi and a rotating tip is recommended.
- To repair bug holes, rub-outs and cracks, use **Certi-Vex Patch FP**.
- Vexcon vertical coatings; **Certi-Vex Envio Smooth VOC** or **Certi-Vex Envio Tex VOC**, **Certi-Vex Guard Clear** and **CACS**, **StarSeal Vertical** and **Certi-Vex/StarSeal Beading Flat** have been tested for compatibility with StarSeal EZ Lift with no loss of film adhesion.
- For more information on these and other architectural design options see Vexcon's Vertical Coatings & Treatments brochure.

SPECIAL NOTES

- StarSeal EZ Lift does not meet the curing requirements of ASTM C-309 and therefore is not a concrete curing or cure and seal product.
- Concrete must be properly cured and sealed with a Vexcon acrylic cure and seal product for optimum performance.
- Concrete that has not been properly finished and/or not properly cured may not have proper surface properties, limiting the performance of StarSeal EZ Lift.
- Proper application of a cure and seal prior to the application of StarSeal EZ Lift is important to eliminate absorption of the bond breaker by the casting or waste slab.
- Coarse broom or extremely rough texture concrete may require a light third coat for optimum release performance. See Casting Slab Test section.
- After proper cleaning, residual StarSeal EZ Lift, when properly applied on the casting slab, will not prevent the bonding of tile or carpet adhesives to the concrete slab.
- The concrete casting slab, waste slabs and tilt wall panels must be properly designed, finished and cured in accordance with industry standards and guidelines including those of ASTM, ACI and TCA.
- The instructions provided apply to general site conditions such as concrete mix designs, finishing techniques, and site ambient conditions. Test applications should always be made by the end user/purchaser prior to overall use of the bond breaker.
- Improper concrete mix designs, overly porous or weak casting or waste slab concrete, failure to properly finish and/or cure the concrete and/or uneven or improper application and insufficient mixing of the bond breaker can lead to panel sticking.
- Storage/Handling: Store in tightly sealed original factory container. Keep from freezing and exposure to moisture. Store at room temperature prior to use. Special care should be taken to keep dirt, water and contaminants away from the openings of containers.
- Shelf Life: If properly stored and handled in its original sealed container, three years from date of manufacture. Always rotate your stock.
- 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.
- Use of this product is limited to contractors with prior tilt-up experience.

DENSIFYING/HARDENING CASTING SLAB

Casting slabs to be hardened with StarSeal PS:

Follow instructions and notes contained in this product data sheet with the following substitutions:

- Replace cure and seal with **Certi-Vex Enviocure 100**, a dissipating curing compound meeting ASTM C-309.
- After tilt-up, remove **Certi-Vex Enviocure 100** with **StarSeal EF Concrete Stripper**.
- Apply **StarSeal PS**, following data sheet instructions.

COATING CASTING SLAB

- The casting slab must be properly cleaned prior to applying any coating.
- Apply **PowerCoat® Epoxy Flexible Joint Sealant** to control joints.
- Apply a compatible Vexcon acrylic or high performance coating.

SPECIFICATIONS/COMPLIANCE

- VOC – <300 grams/liter or <2.51 #/gallon
Meets VOC levels throughout the United States:
 - USEPA AIM - Bond Breakers
 - OTC - Bond Breakers
 - LADCO - Bond Breakers
 - Canada - Bond Breakers
 - CARB - Bond Breakers
 - SCAQMD - Bond Breakers
- CSI reference 03 47 00 - Site Cast Construction

SHORT SPECIFICATION

03 47 00: Basis of design: VOC compliant non-membrane forming, reactive bond breaker system meeting ASTM C-309, compatible with Vexcon curing and wall panel paint/coating materials as manufactured by Vexcon Chemicals.

PHYSICAL PROPERTIES

- Flash Point 200°F (93°C)
- Boiling Point 212°F (100°C)
- Viscosity 11 seconds
- Solids 14 %
- Wt/gal 8.13#

PACKAGING

StarSeal EZ Lift is packaged in 5-gallon pails and 55-gallon drums. Contact Vexcon to discuss your customized packaging requirements.

HEALTH AND SAFETY

- Use only with adequate ventilation.
- If swallowed, do not induce vomiting.
- Use of gloves, goggles and other protective clothing is advised when using this product.

Vexcon MSDS BB115 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 MSDS from your distributor or by contacting Vexcon Chemicals.

CONTACT US @

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

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- Voice: 888.839.2661
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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 EXPRESSED 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.