

## CERTI-VEX® SLU TC

SELF LEVELING • CEMENT BASED • FLOORING OVERLAYMENT

### DESCRIPTION

**CERTI-VEX SLU TC** is a single component, smooth flowing, economic, pumpable, self-leveling, non-structural flooring overlayment. It is intended as a restorative-wearing surface over distressed, worn, or rain damaged, structurally sound concrete. This product requires no troweling and can be applied from a featheredge to 1" thickness in one pour. Certi-Vex SLU TC contains polymer modified Portland cement combined with mineral aggregate to produce fast-settling, high-strength characteristics.

### BENEFITS

- Ready to use with addition of clean water, or may be extended with properly graded sand.
- Economical in place cost.
- Applied over concrete.
- Highly fluid for pumped or poured application.
- Crack and shrink resistant.
- Rapid high early strength gain.
- Fast turnaround-ready for surface material in 24 hours.
- Maintains workability for over 30 minutes @ 70° F.
- Non-gypsum based.
- Reduced sound transmission.

### IDEAL FOR USE ON

- Aisle ways, manufacturing, storage and shipping areas
- Distribution centers and warehouses
- Distressed and worn concrete floors
- Parking garage floors
- Hospitals, nursing homes
- Correctional institutions
- Commercial complexes
- Showrooms

### APPLICATION

Minimum application depth – featheredge. Ensure base slab temperature is over 40° F ( 5° C) and ambient temperature will not be below 50° F ( 10° C) during placement and/or before overlayment will take final set. Prime with Starseal Envio Bond. Pour or pump mixed overlayment to desired thickness. Properly mixed underlayment will seek its own level within 15 minutes at 65° F ( 19° C). A hand spreader or concrete come-along may be used to prompt material around pipes and hard to reach areas. Troweling is not recommended except to featheredge. When pumping, a progressive cavity (rotor stator tube) grout pump is recommended.

### YIELD AND RATE OF APPLICATION

One 50 LB bag of Certi-Vex SLU TC mixed with 5.5-6 quarts (5.2 – 5.6 liters) of clean mixing water will yield approximately 23 sq. ft. of mixture at 1/4" in thickness (2.1 sq.m at 6.3 mm). Always add powder to the water. For thickness over 1", add equal parts of clean, washed, dry silica sand, preferably 20-30 mesh, per 50 LB bag of Certi-Vex SLU TC.

### TECHNICAL DATA

All data have been derived from tests under laboratory conditions. Field conditions may yield slightly different results.

- Mixing Water (per 50-LB bag): 5.0 – 5.5 qts.
- Compressive strength (ASTM C 109):
 

1 day	2000 psi (11.7 MPa)
3 days	2800 psi (28.9 MPa)
7 day	4500 psi (39.5 MPa)
28 day	8500 psi (46.9 MPa)
- Flexural Strength (ASTM C 348):
 

28 day	1050 psi (7.2 MPa)
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- Flowing Time: 15 min
- Working Time 30 min
- Walk on material: after 12-24 hours

### PACKAGING

Certi-Vex SLU TC is available in 50-pound bags. Contact Vexcon directly to discuss your customized packaging requirements.

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.

### PRECAUTIONS

- DO NOT APPLY Certi-Vex SLU TC:
  - Over fresh, plastic concrete less than 28 days old
  - Over structurally unsound concrete or wood
  - Outdoors

Where exposed to rain, snow or other wet conditions:

- Do not permit primed surfaces to become wet
- DO NOT USE on floors that will be exposed to acids (or their salts) or other materials or liquids that may seriously and/or rapidly attack Portland cement.
- DO NOT APPLY Certi-Vex SLU TC if base concrete slab is below 40° F (4.5° C) or when ambient temperature is expected to be below 50° F (10° C) during placement and/or before topping will take final set.
- DO NOT APPLY OVER WOOD OR NON-POROUS SUBSTRATES WITHOUT CONTACTING VEXCON
- Always apply a test area.

## **PREPARATION**

It is suggested that a 10' X 10' (3m X 3m) test application be made. Remove loose, frozen, broken, or carbonated concrete. Shotblasting equipment is recommended for achieving mechanical removal of unsound concrete. Use **Certi-Vex® Concrete Stripper** to remove sealers, epoxies, urethanes, curing compounds, adhesives and other topical coatings. Concrete surfaces must be cleaned. The concrete surface must be free of dust and any other matter that may cause loss of bond; cleaning may be achieved with the use of one of **Vexcon's cleaners**. Joint cracks and drilled or sawed holes should be filled or grouted to prevent seepage of primer and overlayment. Dampen all surfaces, being careful not to allow any standing water to remain.

**NOTE 1:** JOINTS IN SUBSTRATE MUST BE REFLECTED (TOOLED OR SAWED) IN APPLIED OVERLAYMENT.

**NOTE 2:** Proper bond and preparation are crucial in obtaining a successful underlayment installation. The installing contractor is responsible for ensuring substrate is properly prepared prior to application of Certi-Vex SLU TC. Do not apply over lightweight or gypsum base concrete.

## **SHELF LIFE**

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

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## **CURING**

Air cure only. Do not apply a sealer or curing compound.

## **SUBSTRATE PRIMING**

**Starseal® EnvioBond** 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. Using a push broom, 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 until primer is dry.

## **MIXING**

Add Certi-Vex SLU TC to water. DO NOT reverse this process by adding water to material. Do not retemper mix. **OVER CONCRETE:** Use precisely 5.5 quarts (5.2 liters) of clean water per 50-LB bag. Water should be approximately 70° F. Maintain mixing water temperature between 50° F and 90° F ( 10 to 32° C).

Following directions, mix in mixer/pump or mechanical concrete mixer and blend until mixture is smooth, fluid and free of lumps (approximately 2 minutes). For small jobs, use a stainless steel paddle with a 1/2" min. 400-600 rpm drill mixing to lump free consistency.

For applications over 2" in thickness: Add 15 lb. of clean, washed, dry sand per 50-lb. bag. When extending, mix neat as described above. Then, add sand and mix again until smooth and free of lumps.

## **CONTACT US @**

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

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- customerservice@vexcon.com
- Sales@vexcon.com
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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 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 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.