



CSS - CONCRETE SURFACE SAVER SYSTEM

ROLLER APPLIED EPOXY OVERLAY FOR LONG-TERM PROTECTION

PRODUCT DESCRIPTION

The CSS System is a medium-build (1/16"-1/8") chemical-resistant overlay system created by combining 440LV EPOXY with FUMED SILICA. CSS is designed to create a thickened overlay that is roller applied for new or slightly worn, slats, troughs, and floors. The BROADCAST Aggregate is applied to the wet epoxy slurry until the surface looks dry, creating additional wear resistance and non-slip texture. Designed for use on substrates exposed to chemical and physical wear.

INDUSTRY USE

- Excellent for New or slightly worn slats
- Feeder pads, troughs (no broadcast), bunks, loading chutes, walkway, pins, floor resurfacing and overlays
- Agricultural and industrial environments exposed to light-medium traffic
- Areas exposed to corrosive agents, including sulfuric acid around wet/dry feeders
- Applications requiring exceptional, long-term durability

COVERAGE

Approx. 90ft²/8.4m² at 1/16" (0.16cm) per batch
Approx. 45ft²/4.2m² at 1/8" (0.32cm) per batch (recommended)

TECHNICAL DATA

LABORATORY TESTS	RESULTS
Mix Ratio (Epoxy Liquids)	2:1 by Volume
Pot Life	20 Minutes
Tack Free to Touch @ 72°F	4-6 Hours
Initial Cure	24 Hours
Final Cure	7 Days

BENEFITS & FEATURES

- Exceptional hardness & chemical resistance
- Enhanced wear protection with FUMED SILICA + BROADCAST
- Roll-coat simplicity for fast, uniform installation
- Simple broadcast method – apply until surface appears dry
- Economical system that halts deterioration and extends service life
- Ideal for agricultural, industrial, and commercial floors

PACKAGING

1.5-Gal 440LV EPOXY (5.7 L) unit (#VTK3001)
or
15-Gal 440LV EPOXY (57 L) unit; (3) 5-Gal pails (#VTK3002) - makes 10 CSS batches

FUMED SILICA 1-Gal Pail (3.8 L) (#VTK3011)
or
FUMED SILICA 20 Lb Bulk Bag (9.1 kg) (#VTK9013)

BROADCAST Aggregate 50 Lb bag (22.7 kg) (#VTK3010) 56/pallet

LIMITATIONS/WARNINGS

Apply only when the surface and ambient temperature is 50°F (10°C) and rising.

Do not over mix or retemper. Apply to a clean, dry substrate.

Avoid exposing material to high or freezing temperatures. Store in cool, dry, interior area, at ambient temperatures.

Always wear protective clothing, goggles, and impervious gloves. For industrial use only. Keep out of reach of children.



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SURFACE PREPARATION

Concrete must be sound and fully cured (28 days). Remove all unsound concrete, laitance, oil, grease, curing compounds and other contaminants that could prevent adequate bond.

USE PREP & ETCH to clean surface - mix 1 part acid to 1 part water. Rinse thoroughly using clean water. Remove excess water and allow to dry.

NOTE: Concrete substrate should be COMPLETELY dry before application. Substrate temperature must be greater than 50°F (10°C) and remain so during cure time.

Before mixing, bring all materials, including the ADMIX and BROADCAST Aggregates, to a temperature between 65°F and 80°F (18°C to 27°C). This ensures proper working time and easier installation.

MIXING

- Combine 1-Gal of Part "A" Resin and 0.5-Gal Part "B" Hardener Epoxy Liquids into a 5-Gal Pail.
- Mix liquids for 2 minutes.
- Gradually add 1-Gal of FUMED SILICA while continuing to mix. Increase mixing speed and blend thoroughly until uniform with no clumps.

APPLICATION

Pour contents in a bead down middle of slat. Spread and level using 4" roller, notched hand trowel, or brush.

Apply at 90ft² per batch for nominal 1/16" thickness or 45ft² per batch for nominal 1/8" thickness (recommended).

PRO TIP: Transfer mixed batch into pitchers or small pails for easy pouring. Uniformly apply BROADCAST aggregate over wet slurry. Use an upward throwing motion, allowing the aggregate to fall naturally.

Apply BROADCAST aggregate to rejection (no wet or shiny spots). Allow epoxy to cure 24 hours before return-to-service.

CLEAN UP

Clean up immediately with N1 SOLVENT (#VTK3014). Remove from skin while still wet. Scrub skin with soap and detergent.

LIMITED WARRANTY

VANTEK warrants for a period of one (1) year that its products will be free of manufacturing defects and will be in conformity with published specifications when handled, stored, mixed, and applied in accordance with recommendations of VANTEK. If any product fails to meet this warranty, the liability of VANTEK will be limited to replacement of any non-conforming material if notice of such non-conformity is given to VANTEK within (1) one year of delivery of materials. VANTEK may in its discretion refund the price received by VANTEK in lieu of replacing the material. No customer, distributor, or representative of VANTEK is authorized to change or modify the published specifications of this warranty in any way. No one is authorized to make oral warranties on behalf of VANTEK. In order to obtain replacement or refund the customer must provide written notice containing full details of the non-conformity. VANTEK reserves the right to inspect the non-conforming material prior to replacement. EXCEPT FOR THE EXPRESSED WARRANTY STATED ABOVE, THERE ARE NO OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR PURPOSE. VANTEK'S OBLIGATION SHALL NOT EXTEND BEYOND THE OBLIGATIONS EXPRESSLY UNDERTAKEN ABOVE AND VANTEK SHALL HAVE NO LIABILITY OR RESPONSIBILITY TO THE PURCHASER OR ANY THIRD PARTY FOR ANY LOSS, COST, EXPENSE, DAMAGE OR LIABILITY, WHETHER DIRECT OR INDIRECT, OR FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.