

CFS-CTR SERIES



TECHNICAL DATA SHEET MOISTURE VAPOR BARRIER

PRODUCT DESCRIPTION: CFS-CTR Moisture Vapor Barrier is a 100% solids epoxy, two component, moisture vapor barrier designed to be used as a moisture vapor retarder for concrete and other floor coverings such as vinyl tile, hardwood, etc. It can be used as a primer as well as a top coat and can be pigmented with CTR-Epoxy Pigment. It provides good working time and controls moisture vapor emission rates up to 25 lbs./24 hours/1000 sq.ft. while providing excellent mechanical properties and good chemical resistance.

ADVANTAGES: Can Be Pigmented, bacteria and moisture resistant, easy to clean, bonds well to itself with excellent adhesion to multiple substrates, controls moisture vapor emission rates up to 25 lbs./24 hours/1000 sq.ft.

SOLIDS BY WEIGHT: 100% SOLIDS BY VOLUME: 100% VOLATILE ORGANIC CONTENT: 23 AVAILABLE COLORS: Part A upon request, Part B clear to amber, Mix upon request PACKAGING INFORMATION: 3 gallon MIX RATIO: A:B = 2:1 ratio (100:50) SHELF LIFE: 1 year in original unopened factory sealed containers. Keep away from extreme temperatures and moisture. Keep out of direct sunlight and away from fire hazards. ABRASION RESISTANCE: ASTM D4060 taber abraser CS-17 calibrase wheel with 1000 gram total load and 1000 cycles = 0.10 g VISCOSITY: Part A: 1200-1400 clear and 1500-1900 colors, Part B: 200-400 clear and colors, Mix: 1500-1800 clear and 2300-2500 colors	POT LIFE: +/- 20 minutes WORKING TIME: 35-40 minutes TENSILE STRENGTH ASTM D638: 5500 COMPRESSIVE STRENGTH ASTM D695: 9500 ELONGATION ASTM D638: 6-7% HARDNESS SHORE D ASTM D2240: 85-90 RECOMMENDED THICKNESS: 16 mils BOND RESISTANCE ASTM D4541: >300 (substrate ruptures) CURE SCHEDULE: <table><tr><td>Substrate Temp.</td><td>Foot Traffic</td><td>Light Traffic</td><td>Full Cure</td></tr><tr><td>68 degrees F</td><td>24 hours</td><td>72 hours</td><td>4-5 days</td></tr><tr><td>86 degrees F</td><td>24 hours</td><td>48 hours</td><td>3-4 days</td></tr></table> RECOAT: <table><tr><td>Substrate Temp.</td><td>Minimum</td><td>Maximum</td></tr><tr><td>68 degrees F</td><td>8 hours</td><td>16 hours</td></tr><tr><td>86 degrees F</td><td>6 hours</td><td>16 hours</td></tr></table>	Substrate Temp.	Foot Traffic	Light Traffic	Full Cure	68 degrees F	24 hours	72 hours	4-5 days	86 degrees F	24 hours	48 hours	3-4 days	Substrate Temp.	Minimum	Maximum	68 degrees F	8 hours	16 hours	86 degrees F	6 hours	16 hours
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LIMITATIONS: <ul style="list-style-type: none">*Minimum/maximum temperature of substrate 59-86 degrees F.*Maximum relative humidity during application and curing 85%.*Recommended substrate temperature 59 degrees F.*Humidity content of substrate can be over 4% when coating is applied.*Do not apply on porous surfaces where a transfer of humidity may occur during application.*Avoid exterior use on substrates at ground level.*Protect from humidity, condensation, and contact with water during the initial 24 hour curing period.*Surface may discolor in areas exposed to regular UV light.																						

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INSTALLATION INSTRUCTIONS

Surface Preparation:

New concrete should be allowed to cure for a minimum of 30 days. Concrete surfaces must be cleaned and mechanically prepared by shot blasting and/or diamond grinding. All oils, sealers, curing compounds, waxes, etc. must be removed prior to application. Do not apply onto wet substrates. Calcium Chloride tests are recommended prior to application.

Mixing:

Materials should be preconditioned to a minimum of 50 degrees F prior to use. Thoroughly mix each component separately using paddle mixers and a drill for a minimum of 2 minutes to place the solids content evenly in suspension. Pour component B into component A (**if adding pigment, pour 1qt. CTR Epoxy Pigment per 3 Gallon Kit**) using the proper mixing ratio of 2A:1B by volume. Mix both components for at least 3 minutes using a drill at low revolution (300-400 rpm) to reduce trapping of air. While mixing, scrape bottom and walls of container at least once to ensure a consistent mix. Only prepare quantities that may be applied during pot life of mixture.

Application:

Apply mixed product on the prepared surface using a squeegee and backroll to obtain a uniform coating. Avoid creating puddles.

Cleaning:

Clean all tools and materials with xylene or acetone. Wash hands and skin carefully with warm soapy water. Once the product has hardened, it may only be removed through mechanical means.