



TECHNICAL DATA SHEET CFS-HIGH PERFORMANCE URETHANE

PRODUCT DESCRIPTION: CFS-High Performance Urethane is a two component polyester/aliphatic polyurethane coating that exhibits excellent characteristics for abrasion resistance, chemical resistance, flexibility, weathering and UV stability. This product meets the VOC requirements for the newly enacted VOC laws of New York, Pennsylvania, New Jersey and other states as an industrial maintenance coating.

RECOMMENDED FOR: Recommended for auto service centers, warehouses, computer rooms, laboratories, aircraft hangers, cafeterias, exterior tanks, indoor or outdoor service and chemical exposure areas.

<p>SOLIDS BY WEIGHT: Mixed = 73% (colors); 64% (clear) (+/- 2%)</p> <p>SOLIDS BY VOLUME: Mixed = 70% (colors); 60% (clear) (+/- 2%)</p> <p>VOLATILE ORGANIC CONTENT: Less than 335 g/l (mixed)</p> <p>STANDARD COLORS: White, off white, light gray, medium gray, tile red, beige, and clear</p> <p>RECOMMENDED FILM THICKNESS: 3-5 mils per coat wet thickness (yields 2-3 mils dry)</p> <p>COVERAGE PER GALLON: 166 sq. ft. over flake - 320-500 sq. ft. as neat coat</p> <p>PACKAGING INFORMATION: 1 quart, 1 ½ gallon, 3 gallon, 15 gallon - 3 gallon = 2 gallons part A (weight varies by color) and 1 gallon part B (8.5#)</p> <p>MIX RATIO: 2 parts A to 1 part B by volume (approx.)</p> <p>SHELF LIFE: 1 year in unopened containers</p> <p>FINISH CHARACTERISTICS: high gloss (>70 at 60 degrees @ glossmeter)</p> <p>IMPACT RESISTANCE: Gardner impact, direct and reverse = 160 in lb (passed)</p> <p>ABRASION RESISTANCE: Taber abraser CS-17 calibrase wheel with 1000 gram total load and 500 cycles = 22 mg loss</p> <p>ADHESION: 350 psi @ elcometer (concrete failure, no delamination)</p> <p>DOT CLASSIFICATION: Part A "FLAMMABLE LIQUID N.O.S., 3, UN1993, PGIII" Part B "FLAMMABLE LIQUID N.O.S., 3, UN1993, PGIII"</p> <p>VISCOSITY: Mixed = 200-600 cps typical</p>	<p>HARDNESS: Shore D = 62</p> <p>FLEXIBILITY: No cracks on a 1/8" mandrel</p> <p>CURE SCHEDULE: (70 DEGREES F)</p> <table style="width: 100%; border: none;"> <tr> <td>Pot life (1 ½ gallon volume)</td> <td style="text-align: right;">2-4 hours</td> </tr> <tr> <td>Tack free (dry to touch)</td> <td style="text-align: right;">3-5 hours</td> </tr> <tr> <td>Recoat or topcoat</td> <td style="text-align: right;">5-9 hours</td> </tr> <tr> <td>Light foot traffic</td> <td style="text-align: right;">14-24 hours</td> </tr> <tr> <td>Full cure (heavy traffic)</td> <td style="text-align: right;">3-5 days</td> </tr> </table> <p>APPLICATION TEMPERATURE: 45-90 degrees F with relative humidity below 90%</p> <p style="text-align: center;">CHEMICAL RESISTANCE:</p> <table style="width: 100%; border: none;"> <thead> <tr> <th style="text-align: left;">REAGENT</th> <th style="text-align: left;">RATING</th> </tr> </thead> <tbody> <tr> <td>Acetic acid 5%</td> <td>B</td> </tr> <tr> <td>Xylene</td> <td>D</td> </tr> <tr> <td>Mek</td> <td>A</td> </tr> <tr> <td>Methyl alcohol</td> <td>B</td> </tr> <tr> <td>Gasoline</td> <td>D</td> </tr> <tr> <td>10% sodium hydroxide</td> <td>E</td> </tr> <tr> <td>50% sodium hydroxide</td> <td>D</td> </tr> <tr> <td>10% sulfuric</td> <td>D</td> </tr> <tr> <td>10% hydrochloric acid</td> <td>C</td> </tr> <tr> <td>20% nitric acid</td> <td>B</td> </tr> <tr> <td>Ethylene glycol</td> <td>D</td> </tr> </tbody> </table> <p>Rating Key: A - not recommended, B - 2 hour term splash spill, C - 8 hour term splash spill, D - 72 hour immersion, E - long term immersion. NOTE: extensive chemical resistance information is available through your sales representative.</p> <p>PRIMER: N/A to be used as a high performance topcoat on CFS-Epoxy systems</p> <p>TOPCOAT: None recommended</p>	Pot life (1 ½ gallon volume)	2-4 hours	Tack free (dry to touch)	3-5 hours	Recoat or topcoat	5-9 hours	Light foot traffic	14-24 hours	Full cure (heavy traffic)	3-5 days	REAGENT	RATING	Acetic acid 5%	B	Xylene	D	Mek	A	Methyl alcohol	B	Gasoline	D	10% sodium hydroxide	E	50% sodium hydroxide	D	10% sulfuric	D	10% hydrochloric acid	C	20% nitric acid	B	Ethylene glycol	D
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<p>LIMITATIONS:</p> <ul style="list-style-type: none"> *Colors or clarity for clear may be affected by high humidity, low temperatures or chemical exposure. *For best results, use a high quality ¼" nap roller. *Slab on grade requires moisture barrier. *Substrate temperature must be 5 degrees F above dew point. *All new concrete must be cured for at least 30 days. *Light or bright colors (white, safety yellow, etc.) may require multiple coats or a suitable color coordinated primer to achieve a satisfactory hide. *Colors may vary from batch to batch. Therefore, use only product from the same batch for an entire job. *Tire contact may cause discoloration or staining. *Physical properties are typical values and not specifications. 																																			

