



# TECHNICAL DATA SHEET

## CFS-CLEAR WATER BASED URETHANE

**PRODUCT DESCRIPTION:** CFS-Clear Water Based Urethane is a two component high-gloss aliphatic polyurethane water based floor sealer that exhibits excellent characteristics for abrasion resistance, chemical resistance, flexibility, weathering, and UV stability.

**RECOMMENDED FOR:** Recommended for auto service centers, warehouses, computer rooms, laboratories, aircraft hangers, cafeterias, and chemical exposure areas.

<p><b>SOLIDS BY WEIGHT:</b> Mixed= 42%</p> <p><b>SOLIDS BY VOLUME:</b> Mixed= 38%</p> <p><b>VOLATILE ORGANIC CONTENT:</b> 306 grams/liter</p> <p><b>STANDARD COLORS:</b> Clear</p> <p><b>RECOMMENDED FILM THICKNESS:</b> 3-5 mils per coat wet thickness (Do not apply thicker)</p> <p><b>COVERAGE PER GALLON:</b> 320 to 500 square feet @ 3-5 mils wet thickness</p> <p><b>PACKAGING INFORMATION:</b> 3 gallon and 15 gallon. 3 gal = 2 gallons part A and 1 gallon part B (volumes approximate) 15 gallon = 10 gallons part A and 5 gallons part B (volumes approximate)</p> <p><b>MIX RATIO:</b> 2 parts A to 1 part B by volume</p> <p><b>SHELF LIFE:</b> 6 months in unopened containers</p> <p><b>FINISH CHARACTERISTICS:</b> High gloss (&gt;70 at 60 degrees @ glossmeter)</p> <p><b>IMPACT RESISTANCE:</b> Gardner Impact, direct &amp; reverse=120 in lb (passed)</p> <p><b>ABRASION RESISTANCE:</b> Taber abraser CS-17 calibrase wheel with 1000 gram total load and 500 cycles = 21.0 mg loss</p> <p><b>ADHESION:</b> &gt;300 psi @ elcometer (concrete failure, no delamination) over suitable primer</p> <p><b>VISCOSITY:</b> Mixed= 500-1000 cps (typical)</p> <p><b>FLEXIBILITY:</b> No cracks on a 1/8" mandrel</p> <p><b>DOT CLASSIFICATIONS:</b> Part A "Not regulated" Part B "Not regulated"</p>	<p><b>CURE SCHEDULE: (70 DEGREES F)</b></p> <table style="width: 100%; border: none;"> <tr> <td>Pot life – (150 gram mass)</td> <td style="text-align: right;">Minimum 1 hour</td> </tr> <tr> <td>Tack free (dry to touch)</td> <td style="text-align: right;">7-9 hours</td> </tr> <tr> <td>Recoat or topcoat</td> <td style="text-align: right;">8-12 hours</td> </tr> <tr> <td>Light foot traffic</td> <td style="text-align: right;">24 hours</td> </tr> <tr> <td>Full cure (heavy traffic)</td> <td style="text-align: right;">3-5 days</td> </tr> </table> <p><b>APPLICATION TEMPERATURE:</b> 60-90 degrees F with relative humidity between 50% and 90%.</p> <p style="text-align: center;"><b>CHEMICAL RESISTANCE:</b></p> <table style="width: 100%; border: none;"> <thead> <tr> <th style="text-align: left;">REAGENT</th> <th style="text-align: right;">RATING</th> </tr> </thead> <tbody> <tr><td>acetic acid 5%</td><td style="text-align: right;">C</td></tr> <tr><td>xylene</td><td style="text-align: right;">D</td></tr> <tr><td>mek</td><td style="text-align: right;">B</td></tr> <tr><td>methyl alcohol</td><td style="text-align: right;">B</td></tr> <tr><td>gasoline</td><td style="text-align: right;">D</td></tr> <tr><td>10% sodium hydroxide</td><td style="text-align: right;">E</td></tr> <tr><td>50% sodium hydroxide</td><td style="text-align: right;">D</td></tr> <tr><td>10% sulfuric</td><td style="text-align: right;">D</td></tr> <tr><td>10% hydrochloric acid</td><td style="text-align: right;">D</td></tr> <tr><td>20% nitric acid</td><td style="text-align: right;">C</td></tr> <tr><td>ethylene glycol</td><td style="text-align: right;">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><b>PRIMER:</b> Recommend CFS-Low Viscosity Primer</p> <p><b>TOPCOAT:</b> None recommended</p>	Pot life – (150 gram mass)	Minimum 1 hour	Tack free (dry to touch)	7-9 hours	Recoat or topcoat	8-12 hours	Light foot traffic	24 hours	Full cure (heavy traffic)	3-5 days	REAGENT	RATING	acetic acid 5%	C	xylene	D	mek	B	methyl alcohol	B	gasoline	D	10% sodium hydroxide	E	50% sodium hydroxide	D	10% sulfuric	D	10% hydrochloric acid	D	20% nitric acid	C	ethylene glycol	D
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<p><b>LIMITATIONS:</b></p> <ul style="list-style-type: none"> <li>*Colors or gloss may be affected by high humidity, low temperatures, or chemical exposure.</li> <li>*For best results use a high quality 1/4" nap roller.</li> <li>*Slab on grade requires a moisture barrier.</li> <li>*Substrate temperature must be 5°F above dew point.</li> <li>*All new concrete must be cured for at least 30 days.</li> <li>*Physical properties are typical values and not specifications.</li> <li>*Tire contact may cause staining and discoloration.</li> <li>*Lights like sodium vapor lights can cause discoloration.</li> <li>*Always request a sample and apply a suitable test to determine suitability and performance requirements before using.</li> </ul>																																			

