



PRODUCT DATA SHEET

Ultra Solids Clear Conversion Coating

510-0035	Gloss (90°)	510-0038	Flat (10°)
510-0036	Semi-Gloss (60°)	510-0039	Super Satin (45°)
510-0037	Satin (30°)		

DESCRIPTION	CHARACTERISTICS	SPECIFICATIONS
<p>Ultra Solids Clear Conversion Coating offers the durability of a conversion varnish with the ease of application generally associated with precatalyzed lacquers. Formulated with European Polymer Technology, Ultra Solids offers the high level of durability necessary for today's cabinetry and woodwork. Ultra Solids is crystal clear and non-yellowing with a 60-day pot life. Apply two or three coats self-sealing, or if desired, apply one coat of 210-0008 Gem Seal Conversion Sealer and one or two coats of Ultra Solids. This product meets all of the pertinent government regulations regarding emissions and exceeds the performance parameters outlined by KCMA and ASTM.</p> <p>Product Advantages:</p> <ul style="list-style-type: none"> ➤ User Friendly ➤ 60 Day Pot Life ➤ Virtually HAPs Free ➤ AIM Compliant ➤ Water Clear ➤ Ultra Low Formaldehyde ➤ Ultra High Solids ➤ Resists Yellowing ➤ Moisture Resistant ➤ No Critical Recoat Time ➤ Catalyst Supplied in Pre-Measured Containers ➤ AWI TR-4 When Applied Self-Sealing ➤ Exceeds KCMA and ASTM Performance Requirements, When Applied to Manufacturer's Specifications. ➤ Non Photo Chemically Reactive ➤ Phthalate Free 	<p>Viscosity: 23" #4 Ford</p> <p>Weight Solids: 35-36%</p> <p>Volume Solids: 27-28%</p> <p>Weight/Gallon: 7.97-8.02 lbs/gal</p> <p>Film Hardness: 2B- B Overnight</p> <p>Color: <1</p> <p>VOC (Reg/Coating): 491-5.07 lb/gal or 588- 607 g/l</p> <p>VOC (Actual/Material): 4.45-4.58 lb/gal or 533-549 g/l</p> <p>HAPs: .0283 -.0303</p> <p>Catalyst: 1.57 fl oz M1111 per 128 oz</p> <p>Coverage: 428-460 sq ft per gallon at one mil dry film thickness</p> <p>Dry Time: Dust free in 5 minutes Light sand in 30 minutes Recoat in 45 minutes May be force dried up to 110°</p> <p>Pot Life: 60 days when maintained in a closed container @ 77° F</p> <p>Shelf Life: 6 months if unopened and stored in a cool dry area. Always rotate stock.</p> <p><i>Note: These numbers represent actual control values on a smooth, sanded substrate. Spray techniques, texture, and sealing as well as film thickness may give different results on actual work, but they may be used for comparison. To the best of our knowledge, the above technical data is true and accurate at the date of issuance but is subject to change without prior notice.</i></p>	<p>Surface Preparation: New wood: Remove any dirt, grease, glue or other contaminants and sand wood as required. Moisture content of wood should be 7-9%. Old wood: Strip old finishes completely and remove all contaminants from the surface. Make sure the surface is dry, sand as required. Finish as new work.</p> <p>Material Preparation: Catalyze Ultra Solids Clear Conversion Coating with pre-packaged catalyst kit in a stainless steel or plastic lined container. Mix or agitate thoroughly and allow a 20 minute induction period prior to application. This material is prepared at application viscosity and should require no thinning prior to use. However, if the conditions at your facility dictate that a thinner be incorporated, we recommend the use of our SOL-9011 HAPs Free Thinner or SOL-9013 Non HAPS/Non VOC Thinner at levels not to exceed 10% by volume. If prevailing conditions necessitate the use of a retarder, we recommend our SOL-9012, HAPs Free Industrial Retarder be used at a level not to exceed 5% by volume. NOTE: Effective dry times will be lengthened if retarder is added.</p> <p>Application: Because of the short dry time, this product must be applied with professional spray equipment. We recommend that this product be used either as a self-sealing system or in conjunction with a high performance vinyl sealer such as our 210-0008, Gem Seal Conversion Sealer or 210-0001, Gem Seal HAPs Compliant Precatalyzed Vinyl Sealer. When used as a self-sealing system we recommend no more than three coats and not to exceed 4 mils wet film build per coat. When used in conjunction with our vinyl sealers (210-0008 or 210-0001) we recommend one coat of vinyl sealer not to exceed 5 mils wet film build and no more than two coats of Ultra Solids Catalyzed Conversion Coating not to exceed 4 mils wet film build per coat. Total dry film build of the complete coating system is not to exceed 3 mils</p> <p>Clean Up: Use #500 Gem Coat thinner or SOL-9011 HAPs Free Thinner to clean all equipment. Dispose of in accordance with Federal, State, and Local regulation regarding pollution.</p>

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CAUTION: DANGER! FLAMMABLE! VAPORS MAY CAUSE FLASH FIRE. VAPOR HARMFUL. HARMFUL OR FATAL IF SWALLOWED. INJURIOUS TO EYES. KEEP OUT OF THE REACH OF CHILDREN! BEFORE using this product it is essential that the "Material Safety Data Sheet" describing the product as well as the "Product Label" be reviewed. If your company does not have such information or has any questions, contact the manufacturer.

Date: May,2010

Product Performance:

The **KCMA (Kitchen Cabinet Manufacturers Association)** test was conducted with the test panel in a vertical position. Each test panel was prepared as specified in the application instructions above. 3cc's of each chemical were placed on the coated surface and allowed to remain there for a period of 24 hours, with the exception of mustard, which was removed from the panel after one hour.

The **ASTM (American Society for Testing Materials)** test was conducted with the test panel in a horizontal position. Each test panel was coated as specified in the application instructions above. 3cc's of each chemical were placed on the coated surface and contained there by the use of a watch glass for a period of sixteen hours unless otherwise indicated.

The **AWI (Architectural Woodwork Institute) Chemical Resistance Test** is conducted by containing the test panel in a horizontal position while applying 1 milliliter of various chemicals to the surface of the coating. Each chemical is maintained at its respective location on the panel by the use of a watch glass. All chemicals are allowed to remain in contact with the coating surface for a period of 16 hours unless otherwise indicated.

Each chemical is then evaluated for its impact upon the coated surface, which includes such parameters as loss of gloss, discoloration, blistering, and delamination. The chemicals used and their respective effects upon the coating are as follows:

	KCMA Test		ASTM Test		AWI Test	
	Initial Results	Final Results	Initial Results	Final Results	Initial Results	Final Results
Catsup	No damage	No damage	No damage	No damage	N/A	N/A
Vinegar	No damage	No damage	No damage	No damage	N/A	N/A
Alcohol	No damage	No damage	No damage	No damage	N/A	N/A
Olive Oil	No damage	No damage	No damage	No damage	No damage	No damage
2% Ammonia	No damage	No damage	No damage	No damage	N/A	N/A
Lemon Juice	No damage	No damage	No damage	No damage	No damage	No damage
Coffee	No damage	No damage	No damage	No damage	No damage	No damage
Mustard	No damage	No damage	No damage	No damage	No damage @ 1 hour	No damage
Water	No damage	No damage	No damage	No damage	N/A	N/A
Motor Oil	N/A	N/A	No damage	No damage	N/A	N/A
Lighter Fluid	N/A	N/A	No damage	No damage	N/A	N/A
1% Palmolive Solution	N/A	N/A	No damage	No damage	No damage	No damage
1% Tide Solution	N/A	N/A	No damage	No damage	N/A	N/A
4% Sodium Hydroxide	N/A	N/A	N/A	N/A	No damage @ 1 hour	No damage
10% Sodium Hydroxide	N/A	N/A	N/A	N/A	No damage @ 15 minutes	No damage
28% Ammonia	N/A	N/A	N/A	N/A	No damage @ 1 hour	No damage
10% Sodium Phosphate	N/A	N/A	N/A	N/A	No damage	No damage
95% Ethyl Alcohol	N/A	N/A	N/A	N/A	No damage	No damage
Tomato Juice	N/A	N/A	N/A	N/A	No damage	No damage
50% Sulfuric Acid	N/A	N/A	N/A	N/A	No damage @ 15 minutes	No damage
Nail Polish Remover	N/A	N/A	N/A	N/A	No damage @ 1hour	No damage
Glacial Acetic Acid	N/A	N/A	N/A	N/A	No damage @ 15 minutes	No damage

KCMA 9.2 Hot and Cold Check Resistance Test:

All panels passed 21 cold check cycles (cycling from 120 °F. to -5°F. and 70% Relative Humidity to zero Relative Humidity).

KCMA 10.0 Detergent Water Resistance Test:

Passes 24 hours