



PRODUCT DATA SHEET

Ultra Seal
210-0015 Ultra Seal

DESCRIPTION	CHARACTERISTICS	SPECIFICATIONS
<p>Ultra seal is a “best” quality sealer designed to prepare the substrate for a High Performance topcoat system. Ultra Seal offers additional moisture and chemical resistance when used under virtually any Gemini High Performance topcoat. 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"> ➤ HAPs & AIM Compliant ➤ User Friendly ➤ Extended pot life ➤ Excellent Moisture Resistance ➤ Water Clear ➤ No Critical Recoat Time ➤ Dries “Smoother” Than Other Sealers Requiring Less Scuff Sanding ➤ Meets KCMA & ASTM Performance Requirements When Applied to Manufacturer’s Specifications ➤ Passes 20+ Cold Check Cycles ➤ Non Photo Chemically Reactive ➤ Phthalate Free 	<p>Viscosity: 21 #2 Zahn</p> <p>Weight Solids: 22%</p> <p>Volume Solids: 16%</p> <p>Weight/Gallon: 7.45-7.55 lbs/gal</p> <p>Color: <1</p> <p>Film Hardness: B-HB Overnight</p> <p>VOC (Reg/coating): 5.59-5.67 lbs/gal or 670-680 g/l</p> <p>VOC (Act./material): 4.51-4.67 lbs/gal or 540-560 g/l</p> <p>HAPs: .05 - .10</p> <p>Coverage: 250-260 sq. ft.</p> <p>Dry Time: 7 minutes <i>(Note: relative humidity and temperature will effect dry time)</i></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: 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. Mix or agitate thoroughly before use.</p> <p>Application: We recommend a coating system comprised of one coat of 210-0015 applied at 3-4 mils wet film build and 1-2 coats of topcoat applied at 3-4 mils wet film build. Apply with conventional, air assisted airless, HVLP or airless equipment. For airless equipment, pressure may need to be increased due to high solids content.</p> <p>Containers: We supply this material in a lined container. All containers used in conjunction with storage and/or application of this product must be stainless steel or lined with a material designed for use in acidic environments.</p> <p>Clean Up: Use SOL-9011 Non HAPs Thinner to clean up 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 2011

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		
2% Ammonia	No Damage	No Damage	No Damage @ 1 hour	No Damage	N/A	N/A
Lemon Juice	No Damage	No Damage	No Damage	No Damage		
Coffee	No Damage	No Damage	No Damage	No Damage		
Mustard	Slight discoloration	Full recovery	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		
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		
10% Sodium Hydroxide	N/A	N/A	N/A	N/A		
28% Ammonia	N/A	N/A	N/A	N/A		
10% Sodium Phosphate	N/A	N/A	N/A	N/A		
95% Ethyl Alcohol	N/A	N/A	N/A	N/A		
Tomato Juice	N/A	N/A	N/A	N/A		
50% Sulfuric Acid	N/A	N/A	N/A	N/A		
Nail Polish Remover	N/A	N/A	N/A	N/A		
Glacial Acetic Acid	N/A	N/A	N/A	N/A		

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