



PRODUCT DATA SHEET

Gem Coat[®] Vinyl Sealer

210-0010 Vinyl Sealer

DESCRIPTION	CHARACTERISTICS	SPECIFICATIONS
<p>This product was designed to be used in conjunction with our standard lacquer topcoats for the purpose of product performance enhancement. This sealer has been developed using resins which improve the overall durability of the total coating system. It is formulated at a low viscosity and requires the addition of no thinners or reducers for most spray applications. Due to its high solids content, this product, maximizes film build per coat. It exhibits a rapid dry schedule and excellent sandability.</p> <p>Product Advantages:</p> <ul style="list-style-type: none"> ➤ Good Hold Out ➤ Water Clear ➤ Exceptional Durability ➤ Easy to Apply with Average Equipment Methods ➤ AIM Compliant ➤ User Friendly ➤ HAPS Compliant ➤ No Stearates ➤ Passes KCMA and ASTM Requirements When Applied to Manufacturer's Specifications. ➤ Non Photo Chemically Reactive ➤ Phthalate Free 	<p>Viscosity: 24" #2 Zahn</p> <p>Weight Solids: 22%</p> <p>Volume Solids: 16%</p> <p>Weight/Gallon: 7.59 lbs/gal</p> <p>Film Hardness: B Overnight</p> <p>Color: <1</p> <p>VOC (Reg/coating): 5.67 lbs/gal or 679 g/l</p> <p>VOC (Act./material): 4.22 lbs/gal or 506 g/l</p> <p>HAPs: .7237 lbs haps/lbs solids</p> <p>Coverage: 257 sq ft per gallon at one mil dry film thickness</p> <p>Dry Time: 10 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: Clear Vinyl Sealer is ready to use as packaged. Mix or agitate thoroughly before use. Reduction may be required for certain types of application. SOL-9011 HAPS Free Thinner should be used for reduction.</p> <p>Application: Clear Vinyl Sealer is designed for Spray application. Temperature will affect viscosity. All products are designed to achieve the highest possible solids content at a viscosity low enough to allow proper spray atomization without the addition of costly chemical solvents. Refer to spray equipment supplier's recommendations for proper pressure settings and tip selection. Maximum dry film thickness for this sealer should not exceed one mil. We recommend a system comprised of one coat of sealer at 3-4 mils wet film build and 1-2 coats of topcoat at 3-4 mils wet film build. Total dry film build for the complete coating system should not exceed 4 mils.</p> <p>Clean Up: Use SOL-9011 HAPS Free Thinner to clean all equipment. Dispose of in accordance with Federal, State, and Local regulation regarding pollution</p>

The following supersedes any provision contained in the forms, letters and papers of your company. This product is designed and intended for professional application only. All products should be thoroughly tested under application conditions prior to use. The information contained herein is believed to be reliable. **HOWEVER, GEMINI MAKES NO WARRANTY CONCERNING THIS PRODUCT, WHETHER EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** UNDER NO CIRCUMSTANCES SHALL GEMINI BE LIABLE FOR SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR ANY OTHER DAMAGES FROM ALLEGED NEGLIGENCE, BREACH OF WARRANTY, STRICT LIABILITY, OR ANY OTHER LEGAL THEORY, ARISING OUT OF THE USE OR HANDLING OF THIS PRODUCT. THE SOLE REMEDY OF THE BUYER AND THE SOLE LIABILITY OF GEMINI FOR ANY CLAIMS SHALL BE LIMITED TO THE BUYER'S PURCHASE PRICE OF THE PRODUCT WHICH IS THE SUBJECT OF THE CLAIM OR THE AMOUNT ACTUALLY PAID FOR SUCH PRODUCT, WHICHEVER IS LESS. TECHNICAL ADVICE FURNISHED BY GEMINI SHALL NOT CONSTITUTE AN EXPRESS WARRANTY, WHICH IS EXPRESSLY DISCLAIMED. ALL TECHNICAL ADVICE GIVEN IS ACCEPTED AT THE RISK OF THE BUYER.

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: Dec. 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 @ 15 minutes	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	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		
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 & 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:

Passed 24 hours