



PRODUCT DATA SHEET

Gem Coat[®] Clear Precatalyzed Lacquer

510-0050	Gloss (90°)	510-0052	Satin (30°)
510-0051	Semi-Gloss (60°)	510-0053	Flat (10°)
		510-0062	20°

DESCRIPTION	CHARACTERISTICS	SPECIFICATIONS
<p>This product line represents an intermediate step between our high quality water white lacquers and our extremely durable conversion varnish series. The blending of these two technologies creates a product that demonstrates the ease of application normally associated with lacquer, coupled with performance characteristics resembling the conversion varnishes. This product is a single pack system and requires no additional catalyzed. It is supplied to the customer at application viscosity thereby eliminating the need for the incorporation of additional thinners prior to application. This product meets all of the pertinent government regulations regarding emissions and meets or exceeds the performance parameters outlined by the National Kitchen Cabinet Association and the American Society for Testing and Materials.</p> <p>Product Advantages:</p> <ul style="list-style-type: none"> ➤ HAPs & AIM Compliant ➤ User Friendly ➤ No Catalyst Required ➤ No Critical Recoat Time ➤ Water Clear ➤ Resists Yellowing ➤ Self-Sealing ➤ Meets KCMA and ASTM Performance Requirements When Applied to Manufacturer's Specifications. ➤ Phthalate Free 	<p>Viscosity: 27" #2 Zahn</p> <p>Weight Solids: 26-28%</p> <p>Volume Solids: 20%</p> <p>Weight/Gallon: 7.60-7.80 lbs/gal.</p> <p>Film Hardness: B-HB Overnight</p> <p>Color: <1</p> <p>VOC (Actual/Material): 4.92 -5.09 lb/gl or 590 -610 g/l</p> <p>VOC (Reg/Coating): 5.42 -5.59 lb/gl or 650-670 g/l</p> <p>HAPs: .600 - .750</p> <p>Coverage: 315-330 sq ft at one mil dry film thickness</p> <p>Dry Time: Dust free in 8 minutes. Light sand in 30 minutes. Recoat in 45 minutes.</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 product 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 at levels not to exceed 10% by volume. If conditions dictate that a retarder be added, 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: For optimum performance of this Precatalyzed lacquer, we recommend that it be applied as a self-sealing system. When applied as a self-sealing system, we recommend that the total coating system not exceed three coats, with a final dry film thickness no greater than 3 mils. If a faster drying sanding sealer is required, we recommend the use of 210-0015 Ultra Seal which should be applied at one coat with a maximum dry film thickness of 1 mil. The sealer coat should be followed by a maximum of two coats of HAPs Compliant Gem Coat Precatalyzed Lacquer to produce a final coating system with a maximum dry film thickness of 3 mils.</p> <p>Clean Up: Use SOL-9011 to clean up 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: 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	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	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