



PRODUCT DATA SHEET

Gem Prime® White Precatalyzed Vinyl Primer

110-0005 Precatalyzed White Vinyl

DESCRIPTION	CHARACTERISTICS	SPECIFICATIONS
<p>Gem Prime White Precatalyzed Vinyl Primer is a “better” quality white primer formulated for maximum adhesion, flexibility and moisture resistance. Gem Prime can be used as a foundation under virtually any Gemini High Performance topcoat including lacquers, precatalyzed systems, conversion systems, catalyzed varnish and most alkyd or latex enamels. Gem Prime addresses environmental and safety concerns with its low HAPs and low VOC formulation. 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 ➤ Excellent Moisture Resistance ➤ High Solids ➤ No Critical Recoat Time ➤ Non Photo Chemically Reactive ➤ Exceeds KCMA & ASTM Performance Requirements, When Applied to Manufacturer’s Specifications ➤ Phthalate Free 	<p>Viscosity: 65 KU</p> <p>Weight Solids: 45%</p> <p>Volume Solids: 27%</p> <p>Weight/Gallon 9.11 lbs/gal</p> <p>Film Hardness: B overnight</p> <p>VOC (Reg/coating): 4.94 lb/gal or 591 g/l</p> <p>VOC (Actual): 4.64 lb/gal or 557g/l</p> <p>HAPs: .3763 lbs haps/lbs solids</p> <p>Coverage: 441 sq ft per gallon at 1 mil dry film thickness</p> <p>Dry Time: 3 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 at application viscosity as supplied. However, this product may be reduced up to 30% by volume for improved flow and leveling. We recommend SOL-9011 HAPS Free Thinner for reduction.</p> <p>For best adhesion reduce up to 30% with SOL-9011 HAPs Free Thinner.</p> <p>Application: Apply with conventional, air assisted airless, HVLP or airless equipment. For airless equipment, pressure may have to be increased due to high solids content. We recommend a coating system comprised of one coat of Gem Prime White Precatalyzed Vinyl Primer at 3-4 mils wet film build and 1-2 coats of topcoat at 3-4 mils wet film build per coat. The total dry film build for the complete coating system should not exceed 3 mils.</p> <p>Clean Up: Use #500 Lacquer Thinner pr 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: Oct-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	Delamination	No Recovery	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 @ 15 minutes	No Damage		
Mustard	Discoloration	No Recovery	Discoloration @ 15 minutes	No Recovery		
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