



PRODUCT DATA SHEET

Gem Prime White Conversion Primer

150-0002 Conversion Primer

DESCRIPTION	CHARACTERISTICS	SPECIFICATIONS
<p>Gem Prime White Conversion Primer is the "Best" quality white primer formulated for maximum adhesion, flexibility and moisture resistance. When used in conjunction with our white conversion varnish topcoats the final coating system passes the performance standards outlined by KCMA and ASTM. Gem Prime addresses environmental and safety concerns with its low HAPs and VOC formulation. This product meets all of the pertinent government regulations regarding emissions.</p> <p>Product Advantages:</p> <ul style="list-style-type: none"> ➤ HAPs & AIM Compliant ➤ User Friendly ➤ 21 Day Pot Life ➤ Excellent Moisture Resistance ➤ No Critical Recoat Time ➤ Dries Smoother Than Other Primers Requiring Less Sanding ➤ AWI OP-5 When Topcoated with White Gem Var ➤ Catalyst Supplied in Pre-Measured Containers ➤ Phthalate Free ➤ Exceeds KCMA and ASTM Performance Requirements, When Applied to Manufacturer's Specifications ➤ Passes 7 Days ASTM D870-92 Water Immersion ➤ Non-Photo Chemically Reactive. ➤ ASTM D3359-02 Standard Tape Test: 98% Adhesion 	<p>Viscosity: 15-17 #4 Ford</p> <p>Weight Solids: 42%</p> <p>Volume Solids: 27%</p> <p>Weight/Gallon: 8.76 lbs/gal</p> <p>Film Hardness: B-HB Overnight</p> <p>VOC (Reg/coating): 4.60 lbs/gal or 552 g/l</p> <p>VOC (Act./material): 3.6 lbs/gal or 431 g/l</p> <p>HAPs: .1697 lbs haps/lbs solids</p> <p>Coverage: 430 sq ft per gallon at one mil dry film thickness</p> <p>Dry Time: 6 minutes <i>(Note: relative humidity and temperature will effect dry time)</i></p> <p>Catalyst: 1.74 oz MCO1079 per gallon</p> <p>Pot Life: 21 days</p> <p>Shelf Life: 12 months if un-catalyzed, 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 Gem Prime White Conversion Primer with pre-packaged catalyst kit. 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. If a slower dry time is desired, use only SOL-9012 HAPs Free Retarder.</p> <p>Application: Gem Prime White Conversion Primer 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.</p> <p>Clean Up: Use #500 Lacquer Gem Coat Thinner or SOL-9011 HAPs Free Lacquer 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.

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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	Initial Discoloration	No Recovery	No Damage @ 15 min	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	Initial Discoloration	Full Recovery
10% Sodium Hydroxide	N/A	N/A	N/A	N/A	Initial Discoloration	Full Recovery
28% Ammonia	N/A	N/A	N/A	N/A	No Damage	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	Loss of gloss @ 15 minutes	No Recovery
Nail Polish Remover	N/A	N/A	N/A	N/A	No Damage	No Damage
Glacial Acetic Acid	N/A	N/A	N/A	N/A	No Damage @ 1 hour	No Damage @ 1 hour

KCMA 9.2 Hot & Cold Check Resistance Test:

All panels pass 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