



# PRODUCT DATA SHEET

## 275 VOC High Build Lacquer, Clear

500-0280	Gloss (90°)	500-0283	Dead Flat (10°)
500-0281	Semi-Gloss (60°)	200-0227	Lacquer Sealer
500-0282	Satin (30°)		

DESCRIPTION	CHARACTERISTICS	SPECIFICATIONS
<p>These products were formulated for either airless or conventional spray application so that it is not necessary to thin the product with expensive thinners thus, a high build, high quality finish is achieved in fewer coats than most lacquer systems. The highest quality, cost competitive raw materials are used in producing this series of lacquer. <b>DO NOT</b> use over light substrates. These products have a natural, mild amber cast. For non-yellowing over light substrates use the Water Clear series.</p> <p><b>Product Advantages:</b></p> <ul style="list-style-type: none"> <li>➤ Low HAP's</li> <li>➤ Spray Viscosity Without Adding Thinners</li> <li>➤ High Quality</li> <li>➤ VOC Compliant</li> <li>➤ Non Photo Chemically Reactive</li> <li>➤ Phthalate Free</li> <li>➤ ASTM D3359-02 Standard Tape Test for Adhesion: 100%</li> <li>➤ KCMA 9.2 Hot and Cold Check Resistance Test: Passes 21 cycles When Applied to Manufacturer's Specifications</li> <li>➤ KCMA 10.0 Detergent Water Resistance Test: Passes 24 hours When Applied to Manufacturer's Specifications</li> <li>➤ Passes KCMA and ASTM Chemical Test Requirements When Applied to Manufacturer's Specifications</li> </ul>	<p><b>Viscosity:</b> 16" #2 Zahn Topcoat 16" #2 Zahn Sealer</p> <p><b>Weight Solids:</b> 21-22% Topcoat 24% Sealer</p> <p><b>Volume Solids:</b> 16% Topcoat 18% Sealer</p> <p><b>Weight/Gallon:</b> 7.44-7.48 lbs/gal. Topcoat 7.42 lbs/gal. Sealer</p> <p><b>VOC (Actual/Material):</b> .54 lb/gl or 65 g/l Topcoat .60 lb/gl or 72 g/l Sealer</p> <p><b>VOC (Reg/Coating):</b> 2.25 lb/gl or 270-275 g/l Topcoat 2.23 lb/gl or 267 g/l Sealer</p> <p><b>HAPs:</b> .22 Topcoat Zero Sealer</p> <p><b>Film Hardness:</b> B-HB overnight (topcoat) HB overnight (sealer)</p> <p><b>Coverage:</b> 256-264 Sq. Ft. per gallon at one mil dry film thickness</p> <p><b>Dry Time:</b> Dust free in 7 minutes Light Sand in 20 minutes Recoat in 45 minutes</p> <p>*Relative humidity and temperature will affect the speed of drying.</p> <p><b>Pot Life:</b> 12 months if unopened and stored in a cool dry area. Always rotate stock.</p>	<p><b>Surface Preparation:</b> <b>New wood:</b> Remove any dirt, grease, glue or other contaminants and sand wood as required. Moisture content of wood should be 7-9%. <b>Old wood:</b> 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><b>Material Preparation:</b> Ready to use as packaged. Mix or agitate thoroughly before use. Reduction may be required for certain types of application. Acetone or Zero VOC Lacquer Thinner should be used for reduction.</p> <p><b>Application:</b> Because of the short dry time, this series of finishes must be applied with professional spray equipment. A minimum of two coats of topcoat over one coat of sealer is recommended for most jobs. The temperature of the product will affect viscosity. All products are formulated to achieve the highest possible solids content that will allow proper spray atomization without the addition of costly chemical solvents. We do not recommend that the sealer be sprayed hot; however, all finish coat products can be sprayed hot with excellent results. Total dry film build for the complete coating system should not exceed 3 mils.</p> <p><b>Clean Up:</b> Use Acetone or Zero VOC Lacquer Thinner to clean all equipment. Dispose of in accordance with Federal, State, and Local regulation regarding pollution.</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>

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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: July 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
<b>Catsup</b>	No Damage	No Damage	No Damage	No Damage	N/A	N/A
<b>Vinegar</b>	No Damage	No Damage	No Damage @ 1 hour	No Damage	N/A	N/A
<b>Alcohol</b>	No Damage	No Damage	Initial discolor	No Recovery	N/A	N/A
<b>Olive Oil</b>	No Damage	No Damage	No Damage	No Damage	N/A	N/A
<b>2% Ammonia</b>	No Damage @ 15 minutes	No Damage	Initial Discolor	No Recovery	N/A	N/A
<b>Lemon Juice</b>	No Damage	No Damage	No Damage	No Damage	N/A	N/A
<b>Coffee</b>	No Damage	No Damage	No Damage	No Damage	N/A	N/A
<b>Mustard</b>	Initial Discolor	Full Recovery	Initial Discolor	Full Recovery	N/A	N/A
<b>Water</b>	No Damage	No Damage	No Damage	No Damage	N/A	N/A
<b>Motor Oil</b>	N/A	N/A	No Damage	No Damage	N/A	N/A
<b>Lighter Fluid</b>	N/A	N/A	Loss Of Gloss	Full Recovery	N/A	N/A
<b>1% Palmolive Solution</b>	N/A	N/A	Loss of Gloss	Full Recovery	N/A	N/A
<b>1% Tide Solution</b>	N/A	N/A	Loss of Gloss	Full Recovery	N/A	N/A
<b>4% Sodium Hydroxide</b>	N/A	N/A	N/A	N/A	N/A	N/A
<b>10% Sodium Hydroxide</b>	N/A	N/A	N/A	N/A	N/A	N/A
<b>28% Ammonia</b>	N/A	N/A	N/A	N/A	N/A	N/A
<b>10% Sodium Phosphate</b>	N/A	N/A	N/A	N/A	N/A	N/A
<b>95% Ethyl Alcohol</b>	N/A	N/A	N/A	N/A	N/A	N/A
<b>Tomato Juice</b>	N/A	N/A	N/A	N/A	N/A	N/A
<b>50% Sulfuric Acid</b>	N/A	N/A	N/A	N/A	N/A	N/A
<b>Nail Polish Remover</b>	N/A	N/A	N/A	N/A	N/A	N/A
<b>Glacial Acetic Acid</b>	N/A	N/A	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