



PRODUCT DATA SHEET

Ultra-Seal MAX Clear Pre-cat Sealer

DESCRIPTION

Ultra Seal Max is a high quality pre-catalyzed lacquer sealer designed to provide rapid cure schedules and exceptional sanding properties. For wood substrates only. For interior use only.

PRODUCT NUMBERS / SHEENS	COATING PROPERTIES	PREPARATION INSTRUCTIONS
USM-0350	<p>Viscosity: 21 #2 Zahn Weight Solids: 22% Volume Solids: 16% Weight/Gallon: 7.49 lbs./gal Coverage: 256 sq. ft. per gallon at one mil dry film thickness.</p> <p>VOC (coating): 5.63 lbs./gl. or 674 g/l VOC (material): 4.52 lbs./gl. or 542 g/l VOC Ratio: 2.72 Lbs. VOC/Lbs. Solids HAPS Ratio: 0.08 lbs. HAPS/lbs. solids</p> <p>Dry Times: Air Dry: at 78°F, relative humidity 50% To touch: 7 minutes To Handle: 9 minutes To sand/recoat: 15 minutes Force Dry: Flash: 8-10 minutes Bake: 15 min @ 110° F Cool down: 10 min Stack immediately after cool down Relative humidity will affect the speed of drying. Ideal conditions are 75° F or warmer at 50% humidity or less. Dry time will be faster at higher temperatures and lower humidity and equally slower at colder temperatures and higher humidity.</p> <p>Dry Film Thickness: For best results, the DFT for this sealer should be between .5-.6 mils. Please refer to the PDS for the specific topcoat you are using for maximum DFT for the complete system.</p> <p>Shelf Life: 12 months @77° F if unopened and stored in a cool dry area. Always rotate stock.</p> <p>Storage: Keep away from heat or sparks.</p>	<p>Catalyzation: This product comes pre-catalyzed. Do NOT add catalyst.</p> <p>Reduction: Thinning: If needed due to conditions in your facility use SOL-9059 HAPs Free Reducer, or SOL-9011 HAPs Free Thinner at levels not to exceed 5% by volume*</p> <p>Retarder: If a slower dry time is desired, use SOL-9012 Haps Free Retarder at levels not to exceed 3% by volume*</p> <p>*Thinning this material may result in increasing the VOC levels of this product. Refer to your local regulations before thinning.</p> <p>Approved Companion Products PC-04XX NEXUS Pre-cat PC-00XX Clear Pre-cat NXC-07XX NEXUS Core UL-00XX Ultra Lacquer</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>
PRODUCT ADVANTAGES		
<ul style="list-style-type: none"> ➤ Virtually HAP's Free ➤ AIM Compliant ➤ User Friendly ➤ Fast Dry Time ➤ Water Clear ➤ No Critical Recoat Time ➤ Not Photo Chemically Reactive ➤ Phthalate Free ➤ Meets KCMA Performance Requirements, When Applied to Manufacturer's Specifications 		

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PRODUCT DATA SHEET USM-0350 CONTINUED



Substrate preparation:

New wood: Remove any dirt, grease, glue or other contaminants. Moisture content of wood should be 7-9%.

Sand to 150-180 grit. Proper sanding of wood is absolutely critical to achieve the best color development and adhesion of the coating to the substrate.

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.



Mixing Instructions:

Mix material thoroughly before and during use. Material may be mixed by hand or mechanical agitation at moderate speed.



Application:

If staining, apply the approved Gemini stain of your choosing and let dry per the instructions on the PDS for that particular stain. Using conventional, HVLP, airless, or air assisted equipment, apply this sealer at 3-4 wet mils per coat. Let dry a minimum of 15 minutes. Sand with 280-320 grit no-fill sandpaper and remove sanding dust with clean compressed air, or tack rag. This sealer must be sanded before applying a topcoat.

Typically we recommend a coating system comprised of one coat of USM-0350 applied at 3-4 mils wet film build and 1-2 coats of topcoat applied at 3-4 mils wet film build. Please refer to the Approved Companion Products section of this document for a list of approved topcoats. Please refer to the PDS for the topcoat you choose for dry film limitations for the complete system.



Recommended Tip Sizes:

Conventional Air	1.3-1.8 mm
HVLP	1.5-1.9 mm
Airless	10-13 thousandths
Air Assisted Airless-	11-13 thousandths



Precautions:

These products are intended for Professional use only. Do not proceed if you are planning on mixing with other finishing systems or other manufacturer's products. Gemini will not be held liable for finish failures due to the improper use of our products or deviation from our finishing recommendations

Equipment:

All equipment used with this product must have plastic, stainless steel, or Teflon fluid passages and wetted parts

Containers:

We supply this material in a lined container. All containers used in conjunction with storage and/or application of this product must be stainless steel, plastic, or otherwise acid resistant.

Clean up:

Use SOL-9011 Non HAPs Thinner to clean up all equipment. Dispose of in accordance with Federal, State, and Local regulation regarding pollution.

Care and cleaning of this finish: Use a mild dishwashing liquid and a damp cloth to remove food, grease, and other residue. Wipe dry. Do not use cleaners that contain ammonia, bleach, or abrasives as this may damage the finish.