



# PRODUCT DATA SHEET

## NEXUS Clear Pre-Catalyzed Lacquer

### DESCRIPTION

NEXUS is a new generation of pre-catalyzed lacquers specifically designed to combine ease of use with exceptional durability. These topcoats are water clear, have excellent sanding properties, and may be combined either with a companion sealer or used self-sealing. Formulated for kitchen and bathroom cabinetry, architectural woodwork, and fine furniture. For wood substrates only. For interior use only.

PRODUCT NUMBERS / SHEENS	COATING PROPERTIES	PREPARATION INSTRUCTIONS
PC-0490 Gloss PC-0460 Semi-Gloss PC-0430 Satin PC-0420 Dull PC-0410 Flat	<b>Viscosity:</b> 17-23 #4 Ford <b>Weight Solids:</b> 26.33-27.84 % <b>Volume Solids:</b> 19.24-20.55 % <b>Weight/Gallon:</b> 7.73-7.76 lbs./gal <b>Coverage:</b> 309-330 sq. ft. per gallon at one mil dry film thickness.  <b>VOC (reg./coating):</b> 5.46-5.56 lbs./gl. or 654-666 g/l <b>VOC (act/material):</b> 4.81-4.89 lbs./gl. or 576-586 g/l <b>VOC Ratio:</b> 2.25-2.43 lbs. VOC/lbs. Solids <b>HAPS Ratio:</b> 0.08-0.09 lbs. HAPS/lbs. Solids  <b>Dry Times:</b> <b>Air Dry:</b> at 78°F, relative humidity 50% To touch: 6 minutes To Handle: 12 minutes To sand/recoat: 18-22 minutes <b>Force Dry:</b> Flash: 8-10 minutes Bake: 15 @110°F minutes Cool down: 10 minutes Stack: 1 hour 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.  <b>Dry Film Thickness:</b> Maximum DFT for a complete system must not exceed 5 dry mils.  <b>Pot Life:</b> N/A  <b>Shelf Life:</b> 12 months @77° F if unopened and stored in a cool dry area. Always rotate stock.  <b>Storage:</b> Keep away from heat or sparks.	<b>Catalyzation:</b> This product comes pre-catalyzed. Do NOT add catalyst.  <b>Reduction:</b> <b>Thinning:</b> 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 10% by volume*  <b>Retarder:</b> If a slower dry time is desired, use SOL-9056 (PM Acetate) between 4-6% by volume, or SOL-9012 Haps Free Retarder at levels not to exceed 4% by volume*  <b>Note:</b> Effective dry times will be lengthened if retarder is added  *Thinning this material may result in increasing the VOC levels of this product. Refer to your local regulations before thinning.  <b>Approved Companion Products</b> PVS-0100 NEXUS Pre-cat Vinyl Sealer USM-0350 Ultra Seal Max NTB-2430 NEXUS Clear Tint Base
PRODUCT ADVANTAGES		
<ul style="list-style-type: none"> <li>➤ Ready to Spray</li> <li>➤ Excellent Flow And Leveling Properties</li> <li>➤ Self-Sealing</li> <li>➤ Superior Sanding Properties</li> <li>➤ Water Clear</li> <li>➤ Contains UV Inhibitor</li> <li>➤ Meets KCMA Requirements When Applied To Manufacturer Specifications</li> <li>➤ Non Photo Chemically Reactive</li> <li>➤ Phthalate Free</li> </ul>		
<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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## PRODUCT DATA SHEET NEXUS PC-04XX SERIES 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 same as new wood.



### 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 product at 3-4 wet mils per coat. Let dry a minimum of 18-22 minutes. Sand with 280-320 grit, no-fill sandpaper and remove sanding dust with clean compressed air, or tack rag. This product must be sanded in between coats to ensure proper adhesion. This product may be used with a sealer or as a self-seal system.

If a sealer is desired, we recommend a coating system comprised of one coat of a companion sealer (see approved companion products section) applied at 3-4 mils wet film build and 1-2 coats of topcoat applied at 3-4 mils wet film build. If used as a self-seal system we recommend 2-3 coats of PC-04XX series. Maximum dry film thickness of the complete system must not exceed 5 dry mils.



### Recommended Tip Sizes:

Conventional Air	1.4-1.8 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-9059 HAPs Free Reducer or 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.