



**Water Clear Lacquers**

**DESCRIPTION**

A nitrocellulose system modified with state of the art resins specifically formulated to provide exceptional clarity, performance, and long-term color stability. This series is a step above standard nitrocellulose lacquer technology and provides an introduction into higher performance systems designed for interior wood surfaces. For wood substrates only. For interior use only.

PRODUCT NUMBERS / SHEENS	COATING PROPERTIES	PREPARATION INSTRUCTIONS
161 Gloss (90°) 162 Semi-Gloss (48°) 163 Rubbed Effect (25°) 164 Flat (10°)	<b>Viscosity:</b> 23 #4 Ford Flat 35 #4 Ford <b>Weight Solids:</b> 23.2-27 % <b>Volume Solids:</b> 16.9-19.7 % <b>Weight/Gallon:</b> 7.6-7.8 lbs./gal <b>Coverage:</b> 271-317 sq. ft. per gallon at one mil dry film thickness.  <b>VOC (coating):</b> 5.5 lbs./gl. or 677-679 g/l <b>VOC (material):</b> 4.4-5.2 lbs./gl. or 526-622 g/l <b>VOC Ratio:</b> 2.4-2.5 lbs. VOC/lbs. Solids <b>HAPS Ratio:</b> 1-1.7 lbs HAPS/lbs solids  <b>Dry Times:</b> <b>Air Dry:</b> at 78°F, relative humidity 50% To touch: 5 minutes To Handle: 15 minutes To sand/recoat: 30 minutes  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> <i>Total DFT for the complete finish system should not exceed 4 mils.</i>  <b>Shelf Life:</b> 24 months @ 77° F if unopened and stored in a cool dry area. Always rotate stock.  <b>Storage:</b> Keep away from heat or sparks.  <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>	<b>Reduction:</b> <b>Thinning:</b> Reduction is not recommended for airless spray. If needed due to conditions in your facility use SOL-500 Lacquer Thinner at levels not to exceed 13 oz (10% by volume)*  <b>Retarder:</b> If a slower dry time is desired, or to prevent blushing in humid weather use SOL-0061 Retarder at levels not to exceed 4 oz per gallon (3% 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.

**PRODUCT ADVANTAGES**

- AIM Compliant
- Specifically formulated for clarity
- Contains UV Absorbers
- Resists Yellowing
- Phthalate Free

**Approved Companion Products**

**160 Water Clear Lacquer Sealer**

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## PRODUCT DATA SHEET WATER CLEAR LACQUERS CONTINUED



### Substrate preparation:

**New wood:** Remove any dirt, grease, glue or other contaminants. Moisture content of wood should be 7-9%. Sand wood 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 choice and allow dry per the instructions on the Product Data Sheet for that particular stain. Do not apply over a stain tinted with a Universal Tinting Color. Universal Tinting Colors are not compatible with lacquer products and may discolor or slow the dry and cure of subsequent coats. Using conventional, HVLP, airless, or air assisted equipment, apply this product at 4-5 wet mils per coat. Let dry a minimum of 30 minutes. Sand with 280-320 grit, no-fill sandpaper and remove sanding dust with clean compressed air, or tack rag. Typically we recommend a coating system comprised of one coat of the recommended lacquer sealer applied at 3-4 mils wet film build and 2 coats of lacquer topcoat applied at 4-5 mils wet film build. Maximum dry film thickness of the complete system must not exceed 4 dry mils.



### Recommended Tip Sizes:

Conventional Air	1.3-1.8mm
HVLP	1.3-1.8mm
Airless	10-15 thousandths
Air Assisted Airless-	11-15 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-0500 Lacquer 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.