



### High Solids Lacquer Sanding Sealer

#### DESCRIPTION

178 is a high solids nitrocellulose lacquer sanding sealer with fast dry times and excellent sanding properties. It is designed for use in conjunction with our High Solids Series of clear lacquers. **Not intended for use over light or natural stains where clarity and non-yellowing are critical.** For wood substrates only. For interior use only

#### PRODUCT NUMBERS / SHEENS

# 178

#### COATING PROPERTIES

**Viscosity:** 14 #3 Zahn  
**Weight Solids:** 26%  
**Volume Solids:** 21%  
**Weight/Gallon:** 7.65 lb./gal  
**Coverage:** 334 sq. ft. per gallon at one mil dry film thickness.

#### PREPARATION INSTRUCTIONS

**Reduction:**  
**Thinning:** Reduction is not necessary for airless spray. If needed due to job conditions use SOL-500 Lacquer Thinner at levels not to exceed 13 oz (10% by volume)\*

#### PRODUCT ADVANTAGES

- High Solids
- Supplied Ready To Spray For Airless Equipment
- Fast Dry Time
- Excellent Sanding Properties
- AIM Compliant
- Phthalate Free

**VOC (coating):** 5.63 lb./gl. or 675g/l  
**VOC (material):** 5.52 lb./gl. or 662g/l  
**VOC Ratio:** 2.76 lb. VOC/lb. solids  
**HAPS Ratio:** 1.53 lb. HAPS/lb. solids

**Dry Times:**  
**Air Dry:** 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.

**Dry Film Thickness:**  
*The total DFT for the complete coating system should not exceed 3 mils.*

**Shelf Life:** 24 months @ 77° F if unopened and stored in a cool dry area. Always rotate stock.

**Storage:** Keep away from heat or sparks.

*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.*

**Retarder:** Retarding sealers are not recommended.

**Note:** Effective dry times will be lengthened if retarder is added and may affect the dry and cure of subsequent topcoats.

\*Thinning this material may result in increasing the VOC levels of this product. Refer to your local regulations before thinning.

#### Approved Companion Products

**17X-18X High Solids Lacquers**  
**83x Series High Build Lacquers**

Revised: November 17<sup>th</sup>, 2017

The following supersedes any provision contained in the forms, letters and papers of your company. This product is designed and intended for professional application only. All products should be thoroughly tested under application conditions prior to use. The information contained herein is believed to be reliable. **HOWEVER, GEMINI MAKES NO WARRANTY CONCERNING THIS PRODUCT, WHETHER EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** UNDER NO CIRCUMSTANCES SHALL GEMINI BE LIABLE FOR SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR ANY OTHER DAMAGES FROM ALLEGED NEGLIGENCE, BREACH OF WARRANTY, STRICT LIABILITY, OR ANY OTHER LEGAL THEORY, ARISING OUT OF THE USE OR HANDLING OF THIS PRODUCT. THE SOLE REMEDY OF THE BUYER AND THE SOLE LIABILITY OF GEMINI FOR ANY CLAIMS SHALL BE LIMITED TO THE BUYER'S PURCHASE PRICE OF THE PRODUCT WHICH IS THE SUBJECT OF THE CLAIM OR THE AMOUNT ACTUALLY PAID FOR SUCH PRODUCT, WHICHEVER IS LESS. TECHNICAL ADVICE FURNISHED BY GEMINI SHALL NOT CONSTITUTE AN EXPRESS WARRANTY, WHICH IS EXPRESSLY DISCLAIMED. ALL TECHNICAL ADVICE GIVEN IS ACCEPTED AT THE RISK OF THE BUYER. **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.

## PRODUCT DATA SHEET – 178 - 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 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.



### 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-9037 Clean Up 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.