



**SHERWIN  
WILLIAMS.**

# Chemical Coatings

CC-F21

## SHER-WOOD® Catalyzed Lacquer

Full Gloss ..... T77C30  
 Bright Rubbed Effect ..... T77F31  
 Medium Rubbed Effect ..... T77F32  
 Dull Rubbed Effect ..... T77F33  
 Catalyst ..... V66V26

<u>DESCRIPTION</u>	<u>CHARACTERISTICS</u>	<u>SPECIFICATIONS</u>																										
<p><b>SHER-WOOD® Catalyzed Lacquer</b> combines the toughness and chemical resistance of catalyzed varnishes and the depth and appearance properties associated with high quality nitrocellulose lacquers.</p> <p><b>Advantages:</b></p> <ul style="list-style-type: none"> <li>• Meets the Federal HAPS rule for wood finishes as packaged*</li> <li>• Excellent resistance to household chemicals and solvents</li> <li>• Meets KCMA specification requirements when applied over Sher-Wood Vinyl Sealers, T67F3, T67F5, T67F6 or T67F7</li> <li>• Fast drying - similar to nitrocellulose lacquers</li> <li>• 21% Volume Solids - much higher than most standard lacquers</li> <li>• Ideal for kitchen cabinets, vanities, chairs, office furniture, household furniture and a wide range of interior wood products</li> <li>• Versatile application - may be applied by conventional, airless and air assisted airless spray</li> <li>• Can be rubbed like a nitrocellulose lacquer</li> <li>• Excellent print resistance</li> <li>• Free of lead hazards as packaged in compliance with Consumer Product Safety Commission's (CPSC) 16 CFR Chapter II, Subchapter B, part 1303.</li> </ul> <p>*National Standards for Hazardous Air Pollutants (HAPS) Emissions for Wood Furniture Manufacturing Operations CFR40, Part 63, Subpart JJ</p>	<p><b>Gloss (measured on black glass):</b></p> <table> <tr><td>Full</td><td>80+ units</td></tr> <tr><td>BRE</td><td>55-59 units</td></tr> <tr><td>MRE</td><td>30-34 units</td></tr> <tr><td>DRE</td><td>17-21 units</td></tr> </table> <p><b>Volume Solids:</b> 21.0 ± 2%</p> <p><b>Viscosity:</b></p> <p>20-26 seconds #2 Zahn Cup    18-22 seconds #4 Ford Cup</p> <p><b>Recommended film thickness:</b></p> <table> <tr><td>Mils Wet</td><td>4.0 - 5.0</td></tr> <tr><td>Mils Dry</td><td>0.8 - 1.0</td></tr> </table> <p><b>Spreading Rate</b> (no application loss)    305-461 sq ft/gal @ 0.8-1.0 mil DFT</p> <p><b>Drying (77°F, 50% RH):</b></p> <table> <tr><td>To Touch:</td><td>10 minutes</td></tr> <tr><td>To Handle:</td><td>15-20 minutes</td></tr> <tr><td>To Sand:</td><td>30-60 minutes</td></tr> <tr><td>To Recoat:</td><td>30-60 minutes</td></tr> <tr><td>Force Dry</td><td>10-20 minutes at 110-140°F</td></tr> </table> <p><b>Flash Point:</b> 37°F Pensky-Martens Closed Cup</p> <p><b>Mixing Ratio:</b></p> <table> <tr><td>1 gallon</td><td>Catalyzed Lacquer</td></tr> <tr><td>3%</td><td>Catalyst, V66V26</td></tr> </table> <p><b>Pot Life:</b> 30 days</p> <p><b>Package Life:</b> 2 years, unopened</p> <p><b>Air Quality Data:</b></p> <p>Non-photochemically reactive    Volatile Organic Compounds (VOC) as packaged, maximum    5.5 lb/gal, 654 g/L    2.55 lbs VOC/lb solids    Hazardous Air Pollutants (HAPS) as packaged, less than 0.8 lbs per lbs of solids.</p> <p>An Environmental Data Sheet is available from your local Sherwin-Williams facility.</p>	Full	80+ units	BRE	55-59 units	MRE	30-34 units	DRE	17-21 units	Mils Wet	4.0 - 5.0	Mils Dry	0.8 - 1.0	To Touch:	10 minutes	To Handle:	15-20 minutes	To Sand:	30-60 minutes	To Recoat:	30-60 minutes	Force Dry	10-20 minutes at 110-140°F	1 gallon	Catalyzed Lacquer	3%	Catalyst, V66V26	<p><b>Wood</b> (interior only): Must be clean, dry, and finish sanded. Substrate should be free of grease, oil, dirt, fingerprints, and any contamination to ensure optimum adhesion and coating performance properties.</p> <p>Moisture content of wood should be 6 to 8%.</p> <p><b>Testing:</b> Due to the wide variety of substrates, surface preparation methods, and application methods and environments, the customer should test the complete system for adhesion and compatibility prior to full scale application.</p> <p>Recommended Finishing System:</p> <ol style="list-style-type: none"> <li>1. Sealer - Sher-Wood Vinyl Sealers T67F3, T67F5, T67F6 or T67F7 catalyzed (Consult the corresponding data pages for details). Spray a full wet coat. Air dry 30 minutes.</li> <li>2. Sand with 220-280 grit paper and remove sanding dust.</li> <li>3. Topcoat - Catalyze with 3% V66V26 if not previously catalyzed. Reduce and spray a full wet coat (4.0-5.0 mils wet) and allow to dry. For more depth, apply a second coat.</li> <li>4. Allow overnight drying before packing, stacking or rubbing. May vary with drying conditions.</li> <li>5. Maximum dry film thickness of the system must not exceed 4.0 mils.</li> </ol>
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## APPLICATION

### Typical Setups

**Reduction:** Normally not required. If reduction is needed use HAPS Compliant Lacquer Thinner R7K320 or R7K322. Opex Lacquer Thinner R7K22 or R7K120 may also be used but are not HAPS compliant.

### Conventional Spray:

Air Pressure ..... 45-65 psi  
Fluid Pressure ..... 6-10 psi  
Reduction Rate ..... no reduction needed

### Airless Spray:

Pressure ..... 1200 psi  
Tip ..... .011-.013"  
Reduction Rate ..... no reduction needed

### Air Assisted Airless:

Pressure ..... 400-700 psi  
Tip ..... .011 - .013"  
Reducer ..... R7K320 or R7K322 as needed up to 10%. R7K22 or R7K120 may also be used but are not HAPS compliant.

### Cleanup:

Clean tools/equipment immediately after use with HAPS Complying Lacquer Thinner, R7K320 or R7K322. Lacquer Thinner R7K22 or R7K120 may also be used, but are not HAPS compliant.

Follow manufacturer's safety recommendations when using any solvent.

### Household Chemicals Test

Wood test panels were prepared with one coat of Sher-Wood Vinyl Sealer plus two coats of catalyzed lacquer and air dried for 30 days before testing. Five drops of each item were placed under a watch glass for one hour. Film was rinsed with water, washed with warm water and soap, dried, and wiped with VM&P Naphtha to remove items not removed with water.

Acetic Acid .....	no effect
Butter .....	no effect
Carbon Tetrachloride .....	no effect
50% Ethyl Alcohol .....	no effect
Household Ammonia .....	no effect
Ketchup .....	no effect
Lemon Juice .....	no effect
Lipstick .....	no effect
Mayonnaise .....	no effect
Mustard .....	no effect
Nail Polish Remover .....	no effect
Tomato Juice .....	no effect
Turpentine .....	no effect
VM&P Naphtha .....	no effect
Vinegar .....	no effect
Washable Blue Ink .....	no effect
Wesson Oil .....	no effect
Xylene .....	no effect

## SPECIFICATIONS

### Product Limitations:

- This product **must** be catalyzed with 3% Sher-Wood Catalyst, V66V26, before use. Complete cross-linking and film properties will not be attained without catalyzed.
- Catalyst may be added by the user or by the Sherwin-Williams outlet.
- This product should be used within 30 days after being catalyzed to obtain optimum properties. The catalyst causes chemical reaction in the package and performance properties are downgraded.

### Adding additional catalyst after 30 days does not restore film properties.

- Store at room temperature (under 80°F) after catalyzed. Higher temperatures will reduce the storage life.
- Apply over Sher-Wood Vinyl Sealers, T67F3, T67F5, T67F6 or T67F7 catalyzed to meet KCMA cold check requirements.
- Do not use as a self-sealing system because of a potential for lifting in multi-coat application, and poorer overall performance properties.
- Total film thickness of systems must not exceed 4.0 mils dry film because heavier films may show cracking tendencies.
- For interior use only
- Customers are urged to pretest the system under shop conditions
- Sher-Wood Catalyst V66V26 is an acid. To prevent acid corrosion and pitting, all equipment should be made of stainless steel. Containers should be stainless steel or plastic.
- Maximum cure and chemical resistance is attained after 14 days air drying.
- Natural wood will change color by itself and clear wood finishes will not keep this from occurring. This finishing lacquer and all other nitrocellulose based lacquers will yellow over time, with wood tone stains, this yellowing actually makes a warmer, softer appearance. Where white stains, pickled finishes, or white basecoats are used, nitrocellulose lacquers should not be used because the yellowing of the sealer and topcoat may be considered objectionable. For these applications, Sher-Wood Acrylic Conversion Coating is recommended.
- To maintain HAPS compliance only reduce with HAPS compliant reducers.

## CAUTIONS

### FOR INDUSTRIAL SHOP APPLICATION

Thoroughly review product label for safety and cautions prior to using this product. A Material Safety Data Sheet is available from your local Sherwin-Williams facility. Please direct any questions or comments to your local Sherwin-Williams facility.

**Note:** Product Data Sheets are periodically updated to reflect new information relating to the product. It is important that the customer obtain the most recent Product Data Sheet for the product being used. The information, rating, and opinions stated here pertain to the material currently offered and represent the results of tests believed to be reliable. However, due to variations in customer handling and methods of application which are not known or under our control, The Sherwin-Williams Company cannot make any warranties as to the end result.