



**SHERWIN  
WILLIAMS.**

# Product Finishes

## CC-F101

# SHER-WOOD® Hi-Bild Lacquer

Gloss..... T70CT1  
Medium Rubbed Effect..... T70FT1

<u>DESCRIPTION</u>	<u>CHARACTERISTICS</u>	<u>SPECIFICATIONS</u>
<p><b>SHER-WOOD® Hi-Bild Lacquers</b> are HAPS Compliant, high quality, pale, nitrocellulose, clear lacquers for finishing interior wood products.</p> <p><b>Advantages:</b></p> <ul style="list-style-type: none"> <li>• Meets the federal HAPS rule for wood finishes*</li> <li>• Fast drying</li> <li>• Excellent flow</li> <li>• Produces good build (without having exceptionally high weight or volume solids)</li> <li>• Excellent film clarity with pale color</li> <li>• Excellent adhesion, especially over Sher-Wood Vinyl Sealers such as T67F3, T67F5, T67F6 and T67F7</li> <li>• Excellent cold check resistance</li> <li>• Excellent print resistance</li> <li>• Good color retention</li> <li>• Easy to rub</li> <li>• No reduction needed</li> <li>• Meets KCMA requirements over Sher-Wood Vinyl Sealers T67F3 and T67F6</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>Color:</b> Gardner 2 maximum <b>Gloss:</b> Gloss 85+ units MRE 30-34 units</p> <p><b>Weight Solids:</b> 22 ± 2% <b>Volume Solids:</b> 15.3 ± 1%</p> <p><b>Viscosity:</b> 27-32 seconds #2 Zahn Cup 21-25 seconds #4 Ford</p> <p><b>Recommended film thickness:</b> Mils Wet 5.0 - 6.0 Mils Dry 0.7 - 0.9</p> <p><b>Spreading Rate</b> (no application loss) @ 0.7-0.9 mil dft: 272-389 sq ft/gal</p> <p><b>Drying</b> (77°F, 50% RH): To Touch: 10 minutes To Handle: 30 minutes To Recoat: 1 hour Force Dry: at 140°F 15 minutes to recoat 60 minutes to pack</p> <p><b>Flash Point:</b> 23°F, Pinsky-Martens Closed Cup</p> <p><b>Package Life:</b> 2 years, unopened</p> <p><b>Air Quality Data:</b> (Theoretical)</p> <ul style="list-style-type: none"> <li>• Non-photochemically reactive</li> <li>• Volatile Organic Compounds (VOC) as packaged, maximum less exempt solvents 5.67 lb/gal, 680 g/L</li> <li>• Hazardous Air Pollutants (HAPS) as packaged, maximum less than 0.8 lbs/lb of solids</li> </ul> <p>An Environmental Data Sheet is available from your local Sherwin-Williams facility.</p>	<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. Moisture content of wood should be 6 to 8%.</p> <p><b>Testing:</b> Due to the wide variety of substrates, surface preparation methods, application methods, and environments, the customer should test the complete system for adhesion, compatibility and performance prior to full scale application.</p> <p><b>Wood Finishing System:</b></p> <ol style="list-style-type: none"> <li>1. Sanding Sealer—Sher-Wood Hi-Bild Lacquer Sanding Sealer, T60FT2, or Sher-Wood Vinyl Sealers, T67F3, T67F5, T67F6 or T67F7.</li> <li>2. Air dry 30 minutes, sand, and remove all sanding dust.</li> <li>3. Topcoat with Sher-Wood Hi-Bild Lacquer .</li> <li>4. For more depth and better appearance, apply a second coat.</li> </ol>

## APPLICATION

### Typical Setups

Can be sprayed warm, up to 115°F

#### **Conventional Spray:**

Air Pressure..... 50-65 psi  
Fluid Pressure ..... 6-7 psi  
Reducer HAPS Compliant Lacquer  
Thinner, R7K320  
Reduction Rate..... as needed up to 5%

#### **Airless Spray:**

Pressure .....1200 psi  
Tip .....010-.012"  
Reduction Rate..... none

#### **Air Assisted Airless:**

Pressure ..... 600-800 psi  
Tip ..... .015"  
Reduction Rate..... 10%  
Reducer..... R6K18  
R6K18 improves application

#### **Cleanup:**

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

Follow manufacturer's safety recommendations when using any solvent.

## SPECIFICATIONS

#### **Performance Tests:**

Cold Check Resistance.....20 cycles  
Print Resistance..... No print  
2.7 mils dft, 12 hours air dry, at 2 psi at 77°F  
in direct contact with 8 oz. duck cloth.

#### **Household Chemicals Test**

Panels were aged 21 days at room conditions, 5 drops of each item were placed under a watch glass for one hour. After removal, the finish was examined and the following results noted:

Vinegar.....no visual effect  
Lemon Juice.....no visual effect  
Oil Base Paint .....no visual effect  
Latex Emulsion Paint .....no visual effect  
VM&P Naphtha .....no visual effect  
Turpentine .....no visual effect  
Orange Crayon.....no visual effect  
Mayonnaise .....no visual effect  
Sour Milk .....no visual effect  
Margarine .....no visual effect  
Butter.....no visual effect  
Water.....no visual effect  
Cooking fat.....no visual effect

#### **Moisture Resistance:**

Poor when used over T60FT2 or other lacquer sanding sealers. However, when used over a vinyl sealer such as T67F3 or T67F6, resistance is excellent. This allows for use on kitchen cabinets, since KCMA specifications will be met.

## SPECIFICATIONS

#### **Product Limitations:**

- Customer urged to pretest system under shop conditions.
- Surface to be finished must be free from dirt or other foreign matter.
- Under humid conditions add 1-5% MAK R6K30 to prevent film blushing. Such drying conditions will lengthen time to harden.
- Agitate package contents, especially T70FT1, before using.
- Not recommended for exterior use
- Natural wood will change color by itself and clear wood finishes will not keep this from occurring.
- To maintain HAPS compliance, only reduce with HAPS compliant reducers.
- Total film thickness of systems must not exceed 4.0 mils DFT.

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 lacquer should not be used because of the yellowing of the sealer and topcoat may be considered objectionable. In these situations, Sher-Wood Vinyl Sealer, T67F3, T67F5, T67F6 or T67F7 plus Sher-Wood CAB-Acrylic Lacquer is recommended because of its non-yellowing characteristics. Sher-Wood Water White Conversion Varnish or Sher-Wood Acrylic Conversion Coating may also be used if a catalyzed system is desired.

## CAUTIONS

#### **FOR INDUSTRIAL SHOP APPLICATION**

Thoroughly review product label and Material Safety Data Sheet (MSDS) 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.