



**SHERWIN  
WILLIAMS.**

# Chemical Coatings

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 and T67F6</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 and chromate hazards</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</p> <p><b>Gloss:</b> Gloss 85+ units MRE 30-34 units</p> <p><b>Weight Solids:</b> 22 ± 2%</p> <p><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, Pensky- Martens Closed Cup</p> <p><b>Package Life:</b> 2 years, unopened</p> <p><b>Air Quality Data:</b> Non-photochemically reactive Volatile Organic Compounds (VOC) as packaged, maximum 5.67 lb/gal, 680 g/L 3.36 lbs VOC/lb solids Hazardous Air Pollutants (HAPS) as packaged, maximum less than 0.8 lbs/lb of solids</p> <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 and compatibility prior to full scale application.</p> <p><b>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 or T67F6</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 or R7K322. 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.

This finishing lacquer and all other nitro-cellulose 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 or T67F6, plus Sher-Wood CAB-Acrylic Lacquer is recommended because of its non-yellowing characteristics. Sher-Wood Water White Conversion Varnish may also be used if a catalyzed system is desired.

## CAUTIONS

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.

#### LABEL CAUTIONS

##### SEE CONTENTS STATEMENT ON LABEL.

Contents are **FLAMMABLE**. Vapors may cause flash fires. Keep away from heat, sparks, and open flame. During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

**VAPOR HARMFUL.** Use only with adequate ventilation. Wear an appropriate properly fitted vapor/particulate respirator (NIOSH approved) during and after application, unless air monitoring demonstrates vapor/mist levels are below applicable limits. Follow respirator manufacturer's directions for respirator use. Avoid contact with eyes and skin. Wash hands after using. Keep container closed when not in use. Do not transfer contents to other containers for storage.

**FIRST AID:** If **INHALED:** If affected, remove from exposure. Restore breathing. Keep warm and quiet. If on **SKIN:** Wash affected area thoroughly with soap and water. Remove contaminated clothing. Launder before re-use. If in **EYES:** Flush eyes with large amounts of water for 15 minutes. Get medical attention. If **SWALLOWED:** Do not induce vomiting. Call Poison Control Center, hospital emergency room, or physician immediately.

**SPILL AND WASTE:** Remove all sources of ignition. Ventilate and remove with inert absorbent. Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State, and Local regulation regarding pollution.

##### DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE.

Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

**WARNING:** This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

**DO NOT TAKE INTERNALLY. KEEP OUT OF THE REACH OF CHILDREN.**

**FOR INDUSTRIAL USE ONLY.**

SEE MATERIAL SAFETY DATA SHEET. 21513-051905.

**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.