



# Industrial Wood Coatings

CC-F82

## SHER-WOOD® F3 Hi-Bild™ Precat White Lacquer

Low Gloss ..... T85W320  
Custom Blend..... T85GX Series  
Catalyst ..... V66V26

DESCRIPTION	CHARACTERISTICS	SPECIFICATIONS
<p><b>SHER-WOOD® F3 Hi-Bild™ Precat White Lacquers</b> are advanced formaldehyde free topcoats. This product is a fast drying, high performance, conversion lacquer for the general wood finishing market. After catalyzation, it provides four months of pot life as a White Precat Lacquer formulation developed for coating wood furniture and other interior wood products.</p> <p><b>Advantages:</b></p> <ul style="list-style-type: none"> <li>Formaldehyde free coating both during and following application</li> <li>Meets KCMA test requirements for finishes when used over SHER- WOOD® F3 Precat Primer Surfacers E63W330</li> <li>Contains UV absorber for improved resistance to yellowing</li> <li>Good resistance to household stains</li> <li>Good flexibility - 20 cold check cycles</li> <li>Ideal for kitchen cabinets, vanities, office and residential furniture, novelties and a wide range of interior wood products</li> <li>UL GREENGUARD Gold Certified for low chemical emissions</li> </ul> <div data-bbox="272 1287 475 1556"> </div> <p><b>Air Quality Data:</b></p> <ul style="list-style-type: none"> <li>Non-Photochemically Reactive</li> <li>Volatile Organic Compounds (VOC) theoretical, maximum, less exempt sol- vents as packaged: 4.96 lb/gal, 594 g/L Catalyzed and reduced (R6K18 at 20%): 5.38 lb/gal, 645 g/L</li> <li>Volatile Hazardous Air Pollutants (VHAPS) as packaged: Not reportable VHAPS</li> </ul> <p>An Environmental Data Sheet is available from your local Sherwin-Williams facility or at <a href="http://www.paintdocs.com">www.paintdocs.com</a>.</p>	<p><b>Low Gloss:</b> 18 – 22</p> <p><b>Volume Solids:</b> 27 ± 1%</p> <p><b>Weight Solids:</b> 40 ± 1%</p> <p><b>Viscosity:</b> #2 Zahn Cup 22 – 27 sec.</p> <div data-bbox="613 804 1052 1140"> </div> <p><i>The above chart is for information only and should not be used as product specifications</i></p> <p><b>Recommended film thickness per coat:</b></p> <p>Mils Wet 3.0 – 5.0 Mils Dry 0.8 – 1.3 Maximum dry film thickness for total system is 4.0 dry mils.</p> <p><b>Spreading Rate</b> (No Application Loss) 335-540 sq ft/gal @ 0.8-1.3 mils DFT</p> <p><b>Drying</b> (77°F, 50% RH):</p> <p>To Touch: 15 – 20 min. To Handle: 20 - 30 min. To Sand: 40 - 50 min. To Recoat: No Critical Recoat To Pack: Overnight Force Dry: 5 min. @ 110 – 140 °F.</p> <p><b>Flash Point:</b> 22 °F PMCC</p> <p><b>Mixing: by volume</b></p> <p>1 gallon T85W320 1.5% by volume (2 oz. /gal) Catalyst, V66V26</p> <p><b>Pot Life:</b> 4 months</p> <p><b>Package Life:</b> 2 years, unopened</p>	<p><b>Surface preparation</b></p> <p><b>Wood - New Work</b> (interior only):</p> <p>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>Previously finished wood</b> (interior only):</p> <p>Strip old finishes completely and remove all contaminants from the surface. Make sure surface is dry. Finish as new work</p> <p><b>Wood Finishing System:</b> <b>THIS PRODUCT MUST BE CATALYZED</b></p> <ol style="list-style-type: none"> <li>Prime - Spray a full coat (3-5 wet mils) of Sher-Wood F3 Precat Primer Surfacers E63W330. Air dry for at least 30 minutes.</li> <li>Sand - Sand primer coat with 240-320 grit sand paper or equivalent. Remove sanding dust.</li> <li>Topcoat - Spray a full wet coat (3-5 wet mils) of Sher-Wood F3 Hi-Bild Precat White Lacquer. Air dry 40-50 minutes.</li> <li>For more depth and better appearance, apply a second coat of Sher-Wood F3 Hi-Bild Precat White Lacquer.</li> </ol> <p><b>Do not exceed 4.0 mils DFT for the total system.</b></p> <p><b>Testing:</b> The information, data, and recommendations set forth in this Product Data Sheet are based upon test results believed to be reliable. However, due to the wide variety of substrates, substrate properties, surface preparation methods, equipment and tools, application methods, and environments, the customer should test the complete system for adhesion, compatibility and performance prior to full scale application.</p>

## APPLICATION

### Typical Setups

#### May be applied by:

Conventional Spray  
Airless Spray  
Air Assisted Airless  
HVLP

#### Reduction:

As needed for application up to 20% with Methyl Acetate to maintain VOC level. Butyl Acetate (R6K18) or HAPS Compliant Lacquer Thinner (R7K320) may be used but will increase VOC emissions.

#### Retard:

As needed with MAK (R6K30) up to 5%

#### Typical Setups

##### Conventional Spray:

Air Pressure.....40 – 50 psi  
Fluid Pressure .....8 – 12 psi

##### Airless Spray:

Pressure ..... 1500 - 1800 psi  
Tip ..... .011" - .013"

##### Air Assisted Airless:

Air Assist Pressure ..... 15 - 25 psi  
Fluid Pressure ..... 500 - 900 psi  
Tip ..... .011" - .013"

##### HVLP:

Gun.....Binks Mach 1  
Air Pressure at the cap .....9 psi  
Fluid Pressure .....12 psi  
Cap/Tip..... 97AP BlueMax/94

#### Cleanup:

Clean tools/equipment immediately after use with HAPS Compliant Lacquer Thinner (R7K320).

Follow manufacturer's safety recommendations when using any solvent.

#### Performance Tests:

**Cold Check Resistance** .....20 cycles

#### Print Resistance:

No print 2.0 mils DFT, 16 hours air dry, at 2 psi at 77°F in direct contact with 8 oz. duck cloth.

#### Household Chemicals Test:

Panels were aged 10 days at room conditions and tested per KCMA A161.1-2012 -9.3. After removal, the finish was examined and the following results noted:

Vinegar	Pass
Lemon Juice	Pass
100 Proof Alcohol	Pass
Mustard very slight	Pass
Olive Oil	Pass
Coffee	Pass
Orange Juice	Pass
Grape Juice	Pass
Catsup	Pass
Detergent Solution	Pass

## ADDITIONAL INFORMATION

- This product must be catalyzed with Sher-Wood® Precat Catalyst V66V26 before use at a level of 1.5% by volume. Product will typically be catalyzed before delivery to the customer. Complete cross-linking and film properties will not be obtained without catalyzation. Catalyst must be added by the user or by the Sherwin-Williams outlet.
- This product should be used within 4 months after being catalyzed to obtain optimum properties. The catalyst causes chemical reaction in the package and dissipates after 4 months and performance properties are downgraded. Adding additional catalyst does not restore film properties.
- Store at room temperature (under 80°F) after catalyzation. Higher temperatures will reduce the pot life.
- Self seal or apply over Sher-Wood® F3 Precat Primer E63W330 to meet KCMA requirements.
- To achieve optimal results, a minimum of 2 mils DFT is required.
- Total film thickness of systems must not exceed 4.0 mils dry film because heavier films may show cracking and checking.
- For interior use only.
- Sher-Wood® Precat 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.
- Do not catalyze with other acid catalysts because of fast reactivity and pot life problems.
- Maximum cure and chemical resistance is attained after 10 days air-drying.
- To maintain HAPS compliance, only reduce with HAPS compliant reducers.
- May be tinted with OptiColor® XP or GIS colorants up to 4 oz/gal. **Do not** exceed 4 oz/gal of colorants. Colorant must be added under agitation and thoroughly mixed before evaluating color. **Do not use** any other colorants. The use of other colorant systems may result in incompatibility and color float.

All trademarks are the property of their respective owners.

## CAUTIONS

### FOR INDUSTRIAL SHOP APPLICATION ONLY

**Thoroughly review product label and Safety Data Sheet (SDS) for safety information and cautions prior to using this product.**

To obtain the most current version of the Environmental Data Sheet (EDS), Product Data Sheet (PDS), or Safety Data Sheet (SDS) please visit your local Sherwin-Williams facility or [www.paintdocs.com](http://www.paintdocs.com).

Please direct any questions or comments to your local Sherwin-Williams facility.

**Note:** All purchases of products from Sherwin-Williams are exclusively subject to Sherwin-Williams' terms and conditions of sale which can be found [by following this link \(click here\)](#). Please review these terms and conditions prior to the purchase of the products.

Sherwin-Williams warrants the product to be free of manufacturing defect in accordance with Sherwin-Williams' quality control procedures. Except for the preceding sentence, due to factors that are outside of Sherwin-Williams' control, including substrate selection, and customer handling, preparation, and application, Sherwin-Williams cannot make any other warranties related to the product or the performance of the product. **SHERWIN-WILLIAMS DISCLAIMS ALL WARRANTIES OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTY OF MERCHANTABILITY, THE IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE.**

Liability for products proven to be defectively manufactured will be limited solely to replacement of the defective product or the refund of the purchase price paid for the defective product, as determined by Sherwin-Williams. Under no circumstances shall Sherwin-Williams be liable for indirect, special, incidental or consequential damages, lost profits or punitive damages arising from any cause whatsoever.