



## Product Finishes

CC-F85

# SHER-WOOD® 5421W Universal Primer

White Primer..... E64W521  
Custom Blend .....E64UX Series

DESCRIPTION	CHARACTERISTICS	SPECIFICATIONS
<p><b>SHER-WOOD® 5421W Universal Primer</b> is a fast drying waterborne acrylic primer designed for use on a variety of interior wood products. This low VOC, universal primer can be topcoated with a wide range of SHER-WOOD® solvent and waterborne products shown below.</p> <p><b>Advantages:</b></p> <ul style="list-style-type: none"> <li>• Fast drying - Tack free in 10-15 minutes</li> <li>• Can sand in 45-60 minutes</li> <li>• High solids and quick build</li> <li>• Good wet and dry hide</li> <li>• Good flow and leveling</li> <li>• Less than 0.10 lb/gal, 12 g/L VOC as packaged (as per CFR 59.106)</li> <li>• Can topcoat with the following: <ul style="list-style-type: none"> <li>KEM AQUA® Plus Clear</li> <li>KEM AQUA® Plus White</li> <li>Hi-Bild™ Precat Lacquer</li> <li>F3 Hi-Bild™ Precat Lacquer</li> <li>Water White Conversion Varnish</li> <li>KEMVAR® Conversion Varnish</li> <li>KEMVAR® Plus Conversion Varnish</li> <li>Pigmented Conversion Varnish</li> <li>F3 KEMVAR® Plus Conversion Varnish</li> <li>ULTRA-CURE® WB Pigmented UV Topcoat</li> <li>Sayerlack® Premium Polyurethane Topcoat</li> </ul> </li> <li>• Ideal for kitchen cabinets, vanities, chairs, office furniture, household furniture, novelties, and a wide range of interior wood products.</li> <li>• UL GREENGUARD Gold Certified for low chemical emissions</li> </ul>	<p><b>Color:</b> White + Clear <b>Gloss:</b> Flat <b>Volume Solids (E64W521):</b> 48.0 ± 1% <b>Weight Solids (E64W521):</b> 62.1 ± 1% <b>Volume Solids (E64C523):</b> 46.2 ± 1% <b>Weight Solids (E64C523):</b> 57.8 ± 1% <b>Viscosity:</b> 15-22 seconds #3 Signature Zahn Cup</p> <p><b>Recommended film thickness:</b> Mils Wet 2.5 - 5.0 Mils Dry 1.7 - 2.4</p> <p><b>Spreading Rate</b> (no application loss) 750 sq ft/gal @ 1.0 mils DFT</p> <p><b>Drying</b> (77°F, 50% RH): To Touch: 0-15 minutes To Handle: 0-30 minutes To Sand: 45-60 minutes To Recoat: 60 minutes To Pack: overnight Force Dry: 10-20 minutes at 110-140°F</p> <p>Good air movement and humidity control are necessary for proper drying of water reducible coatings. When humid shop conditions exist, lower relative humidity is achieved only by raising the temperature 10-30°F and ventilating out the excess moisture.</p> <p><b>Flash Point:</b> None <b>Package Life:</b> 1 year, unopened</p> <p><b>Air Quality Data:</b></p> <ul style="list-style-type: none"> <li>• Non-photochemically reactive</li> <li>• Volatile Organic Compounds (VOC) theoretical as packaged, maximum less water and exempt solvents: Less than 0.10 lb/gal, 12 g/L</li> <li>• Volatile Hazardous Air Pollutants (VHAPS) as packaged: no 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>VOC compliance limits vary from state to state; please consult local Air Quality rules and regulations.</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>Wood Finishing System</b></p> <ol style="list-style-type: none"> <li>1. Primer - Apply Sher-Wood 5421W Universal Primer at 4-5 mils wet. Air dry thoroughly. Sand with 240 grit sandpaper, remove sanding dust. A second coat of primer may be applied for improved holdout. Sand between primer coats and before topcoat.</li> <li>2. Topcoating - Topcoat with one of the recommended Sher-Wood finishes. See corresponding topcoat data page for details. <b>NOTE: When using E64W521 as a white primer under a clear topcoat, it is recommended to use KEM AQUA® Plus Clear or Water White Conversion Varnish or Sayerlack® Premium Polyurethane to minimize yellowing.</b></li> <li>3. Dry -Allow overnight drying before stacking or packing.</li> <li>4. Maximum dry film thickness of the system should not exceed 4 mils.</li> </ol> <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**

**Reduction:** Apply full bodied, no reduction required. To retard the drying, use water at 5% maximum. To ensure optimal coating performance and stability, it is recommended to use deionized water to retard the dry.

### **May be applied by:**

Conventional Spray  
Airless Spray  
Air Assisted Airless  
HVLP  
Vacuum Coat

### **Conventional Spray:**

Air Pressure..... 40-45 psi  
Fluid Pressure ..... 8-10 psi  
Tip.....055-.070

### **Airless Spray:**

Pressure .....1800-2400 psi  
Tip ..... .011-.013"

### **Air Assisted Airless:**

Air Pressure..... 20-25 psi  
Fluid Pressure .....600-800 psi  
Cap/Tip ..... .011-.013"

### **HVLP:**

Air Pressure Max at Cap ..... 10 psi  
Fluid Pressure ..... 6-8 psi  
Cap/Tip ..... .055-.070

### **Cleanup:**

Clean tools/equipment immediately after use with water. Flush equipment with water followed by flushing with 2 parts water and 1 part Butyl Cellosolve, R6K25 or Acetone, R6K9.

Follow manufacturer's safety recommendations when using any solvent.

## **ADDITIONAL INFORMATION**

- For interior use only.
- Protect from freezing. Store indoors and under 100° F.
- Paint, substrate and ambient conditions must be above 60°F. During high humidity use force dry up to 140°F with good air movement.
- Reducing more than 10% with water will lessen performance as a barrier coat to tannins.
- For applications on MDF two coats of primer are recommended. Sand between coats.
- Mix thoroughly before use. Avoid vigorous agitation which may cause foaming.
- Excessive wet film thickness of more than 4.0 mils wet may sag on vertical applications
- For wood substrates requiring a primer with additional filling properties (such as MDF) Kem Aqua® 65P Spray-Fil is recommended.
- Tank, piping and containers should be lined steel or plastic.
- **When using E64W521 as a white primer under a clear topcoat, it is recommended to use Kem Aqua® Plus Clear or Water White Conversion Varnish or Sayerlack® Premium Polyurethane to minimize yellowing.**
- Sher-Wood® Glaze and Sher-Wood® Kemvar® Glaze products can be used over E64W521 when topcoated with Kem Aqua® Plus Clear, Sher-Wood® solvent based precatalyzed clears, Sher-Wood® clear conversion varnishes and Sayerlack® Premium Polyurethane clear topcoats.
- The customer is urged to pretest the system under shop conditions.
- Both blending clear and white bases can be blended in all proportions
- E64W521 can be tinted with up to 4 ounces per gallon of Kem Aqua® Colorants, ColorCast Ecotoner® or Blend-a-Color® (BAC) colorants per gallon. E64C523 can be tinted with up to 6 ounces per gallon of Kem Aqua® Colorants, ColorCast Ecotoner® or Blend-a-Color® (BAC) colorants per gallon.

## **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.

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