



**SHERWIN  
WILLIAMS.**

## Industrial Wood Coatings

CC-F85A

# SHER-WOOD® 5421W Gen II Universal Primer

White Primer..... E64W522

Clear.....E64C524

Custom Blend.....E64UX Series

### DESCRIPTION

**SHER-WOOD® 5421W Gen II Universal Primer** 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.

#### Advantages:

- Improved sanding characteristics
- High solids and quick build
- Good wet and dry hide
- Good flow and leveling
- Very Low VOC as packaged (as per CFR 59.406)
- Meets KCMA requirements with wood finishing topcoats listed below
- Can topcoat with the following:
  - KEM AQUA® Plus Clear
  - KEM AQUA® Plus White
  - Hi-Bild™ Precat Lacquer
  - F3 Hi-Bild™ Precat Lacquer
  - Water White Conversion Varnish
  - KEMVAR® Conversion Varnish
  - KEMVAR® Plus Conversion Varnish
  - Pigmented Conversion Varnish
  - F3 KEMVAR® Plus Conversion Varnish
  - Kemvar 80 Series Conversion Varnish
  - ULTRA-CURE® WB Pigmented UV Topcoat
  - Sayerlack® Premium Polyurethane Topcoat
  - Sher-Wood EA Hydroplus
- Ideal for kitchen cabinets, vanities, chairs, office furniture, household furniture, novelties, and a wide range of interior wood products.
- UL GREENGUARD Gold Certified for low chemical emissions



### CHARACTERISTICS

**Color:** White + Clear

**Gloss:** Flat

**Volume Solids (E64W522):** 48.0 ± 1%

**Weight Solids (E64W522):** 62.1 ± 1%

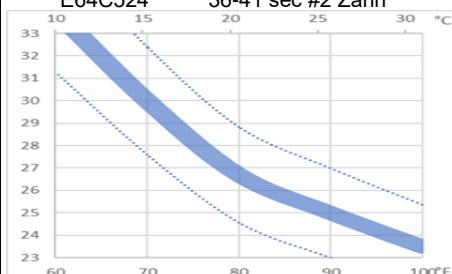
**Volume Solids (E64C524):** 46.2 ± 1%

**Weight Solids (E64C524):** 57.8 ± 1%

#### Viscosity:

E64W522 25-30 sec #2 Zahn

E64C524 36-41 sec #2 Zahn



*\*The above chart is for information only and should not be used as product specifications*

#### Recommended film thickness:

Mils Wet 2.5 - 5.0

Mils Dry 1.7 - 2.4

#### Spreading Rate (no application loss)

750 sq ft/gal @ 1.0 mils DFT

#### Drying (77°F, 50% RH):

To Touch: 10-15 minutes To

Handle: 20-30 minutes To

Sand: 45-60 minutes

To Recoat: 60 minutes

To Pack: overnight

Force Dry: 10-20 minutes at 110-140°F

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.

**Flash Point:** None

**Package Life:** 1 year, unopened

VOC compliance limits vary from state to state; please consult local Air Quality rules and regulations.

### CHARACTERISTICS

#### (cont)

#### Air Quality Data:

- Non-photochemically reactive
- Volatile Organic Compounds (VOC) theoretical as packaged, maximum less water and exempt solvents: Less than 0.10 lb/gal, 12 g/L
- Volatile Hazardous Air Pollutants (VHAPS) as packaged: no reportable VHAPS

An Environmental Data Sheet is available from your local Sherwin-Williams facility, or at [www.paintdocs.com](http://www.paintdocs.com).

### SPECIFICATIONS

#### Surface preparation

##### Wood - New Work (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%.

##### Previously finished wood (interior only):

Strip old finishes completely and remove all contaminants from the surface. Make sure surface is dry. Finish as new work

**Testing:** 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.

## **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 2-Butoxyethanol, R6K25 or Acetone, R6K9.

Follow manufacturer's safety recommendations when using any solvent.

All trademarks are the property of their respective owners.

**Wood Finishing System**

1. Primer - Apply Sher-Wood Gen II Universal Primer at 3-5 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.
2. Topcoating - Topcoat with one of the recommended finishes. See corresponding topcoat data page for details. NOTE: When using 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.
3. Dry - Allow overnight drying before stacking or packing.
4. Maximum dry film thickness of the system should not exceed 4 mils

## **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 air entrainment, foaming or bubbles. If this occurs, allow at least 24 hours for air to escape before using product**
- 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 E64W522 as a white primer under a clear topcoat, it is recommended to use Kem Aqua® Plus Clear (T75C555 series), Water White Conversion Varnish (V84V80 series) or Sayerlack® Premium Polyurethane (TZL71 series) to minimize yellowing.
- Sher-Wood® Glaze and Sher-Wood® Kemvar® Glaze products can be used over E64W522 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
- E64W522 can be tinted with up to 4 ounces per gallon of Kem Aqua® Colorants, ColorCast Ecotoner® (CCE) or Blend-a-Color® (BAC) colorants per gallon. E64C524 can be tinted with up to 6 ounces per gallon of Kem Aqua® Colorants, ColorCast Ecotoner® (CCE) 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.

**Note:** Each purchase and/or use of products from Sherwin-Williams are exclusively subject to Sherwin-Williams' terms and conditions of sale which can be found here: [www.sherwin-williams.com/terms-and-conditions#standard-tc](http://www.sherwin-williams.com/terms-and-conditions#standard-tc)  
Please review these terms and conditions prior to each purchase and/or use of the products.

Sherwin-Williams warrants the product to be manufactured in accordance with Sherwin-Williams' quality control procedures. Except for the preceding sentence, **SHERWIN-WILLIAMS SPECIFICALLY 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.**

Sherwin-Williams' liability for products 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.