SHER-WOOD® Water White Conversion Varnish

Gloss V84V80
Bright Rubbed Effect V84F81
Medium Rubbed Effect.....V84F82
Dull Rubbed Effect V84F83
Catalyst.....V66V21

DESCRIPTION

SHER-WOOD® Water White Conversion Varnish is a catalyzed wood finishing system providing water white color and good resistance to yellowing. It is recommended for use over white "pickled" and light color stains where good resistance to yellowing is required.

Advantages:

- Excellent clarity
- UV absorber added to insure good resistance to yellowing
- High Build - 35% volume solids
- Meets the Federal HAPS* standard for wood finishes
- Fast drying
- Meets the test requirements of the Kitchen Cabinet Manufacturers Association (KCMA)
- Self sealing - use the same product as a sealer
- Process efficient - many three coat applications can be done in two coats because of its high solids and high build
- Versatile - may be applied by conventional airless, air assisted airless, or electrostatic spray
- Good "hang" on vertical surfaces
- Excellent toughness and mar resistance
- Excellent moisture resistance
- Excellent resistance to household chemicals
- Excellent cold check resistance
- Ideal for kitchen cabinets, vanities, chairs, office furniture, and a wide range of interior wood products
- Free of lead hazards as packaged in compliance with Consumer Product Safety Commission's (CPSC) 16 CFR Chapter II: Subchapter B, part 1303.

* National Standards for Hazardous Air Pollutants (HAPS) Emissions for Wood Furniture Manufacturing Operations CFR40, Part 63, Subpart JJ

CHARACTERISTICS

Gloss: Gloss - 85+
BRE - 55-59 units
MRE - 34-38 units
DRE - 17-21 units

Volume Solids: 35 ± 1%
Viscosity: 17-22 seconds #2 Zahn Cup
14-18 seconds #4 Ford Cup
Recommended film thickness:
Mils Wet - 2.5 - 4.0 Mils Dry - 0.8 - 1.2
Spreading Rate (no application loss)
460-690 sq ft/gal @ 0.8-1.2 mils DFT

Drying (77°F, 50% RH):

To Touch:	10-15 minutes
To Handle:	15-30 minutes
To Sand:	30-60 minutes
To Recoat:	30-60 minutes

Coating must be applied and dried at a temperature of 70°F or higher to ensure acceptable coating properties

Force Dry: 5-20 minutes at 110-160°F
Flash Point: 40°F PMCC

Mixing Ratio, Sealer:

1 part	Conversion Varnish
3%	Catalyst V66V21
15%	Butyl Acetate R6K18

Mixing Ratio, Topcoat:

1 part	Conversion Varnish
3%	Catalyst V66V21
5%	Butyl Acetate R6K18

Reduce with Butyl Acetate, R6K18 or MAK, R6K30 to maintain HAPS compliance. Toluene, Xylene or High Flash Naphtha 100 may also be used, but are not HAPS compliant.
Pot Life: 24 hours
Package Life: 24 months, unopened

Air Quality Data (Theoretical):

- Photochemically reactive
- Volatile Organic Compounds (VOC) as packaged, maximum, less exempt solvents: <4.6 lb/gal, 550 g/L
- Hazardous Air Pollutants (HAPS) as catalyzed and reduced with Butyl Acetate R6K18: <0.8 lb. per pound of solids

An Environmental Data Sheet is available from your local Sherwin-Williams facility.

SPECIFICATIONS

Wood (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%.

Finishing System:

1. Sealer—Catalyze and reduce Varnish as a sealer. Spray a full wet coat. Air dry 30 minutes or force dry 5-20 minutes at 110° -160°F.
   Note: Sher-Wood Vinyl Sealers T67F3, T67F5, T67F6 and T67F7 may also be used as a sealer under Water White Conversion Varnish. **These sealers must be catalyzed when used under Sher-Wood catalyzed topcoats. Consult the corresponding sealer data page for details.**
2. Sand with 220-280 grit paper, remove sanding dust.
3. Topcoat— Catalyze Sher-Wood Water White Conversion Varnish as a topcoat. For more depth apply a second coat.
4. Allow overnight dry before packing or stacking. Force drying may be used.
5. Maximum dry film thickness of the system must not exceed 4 mils because heavier films may cause cracking.

Testing: 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.

continued on back

APPLICATION

Typical Setups

Conventional Spray:
Air Pressure ..... 40-50 psi
Fluid Pressure..... 6-8 psi
Airless Spray:
Pressure ..... 1200-1800 psi
Tip..... .011-.015"
Air Assisted Airless:
Assist Air Pressure..... 10-25 psi
Fluid Pressure..... 400-800 psi
Cap/Tip ..... .011-.015"
Electrostatic Spray:
Substrate must be conductive.

Note: HAPS Free Reducer R7K305 can be used to maintain low HAPS. MAK R6K30 and EEP R6K35 can be used to retard the coating system and maintain low HAPS. Acetone R6K9 can be used as a HAPS and VOC exempt solvent.

Cleanup:
Clean tools/equipment immediately after use Butyl Acetate, or HAPS free Lacquer Thinner R7K305.

Follow manufacturer's safety recommendations when using any solvent.

SPECIFICATIONS

Performance Tests:
Cold Check Resistance..... 20 cycles
Print Resistance..... No print
18 hours air dry, at 2 psi at 77°F in direct contact with 8 oz. duck cloth.

Household Chemicals Test
Panels were aged 30 days at 77°F, 5 drops of each item were placed under a watch glass for one hour. Film was rinsed with water, washed with warm water and soap, dried, and wiped with VM&P Naphtha to remove items not removed with water.

Household Ammonia ..... no visual effect
Vinegar ..... no visual effect
Lipstick..... no visual effect
Lemon Juice ..... no visual effect
50% Ethyl Alcohol..... no visual effect
Mercurochrome 2% ..... no visual effect
Red Ink ..... no visual effect
Washable Blue Ink..... no visual effect
Mustard..... 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
Carbon Tetrachloride..... no visual effect
Mayonnaise ..... no visual effect
10% Sodium Carbonate ..... 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

SPECIFICATIONS

Product Limitations:

- Sher-Wood Water White Conversion Varnish must be catalyzed 3% with Sher-Wood KemVar Catalyst V66V21. Do not over catalyze. Do not use any other catalyst.
- Do not use over conventional nitrocellulose lacquer sealers. Seal with Sher-Wood Vinyl Sealers T67F3, T67F5, T67F6 or T67F7 catalyzed, or conversion varnish.
- KemVar Catalyst V66V21 is an acid. To prevent acid corrosion and pitting, all equipment should be made of stainless steel. Containers and piping should be stainless steel or plastic.
- Do not use Sher-Wood Catalyst V66V26.
- For interior use only.
- For laboratory furniture and the best chemical resistance properties, Super KemVar "M" should be used.
- While catalyzed varnish remains a low viscosity liquid beyond 24 hours, it should not be used after 24 hours because a chemical reaction is taking place. The resultant film may have inferior cure and crosslinking and a tendency for long-term cold checking.
- To extend the use life at the end of the day, add 300-400% of uncatalyzed material. Add catalyst based only on the uncatalyzed portion when ready to use the next day. Refrigeration also extends the working potlife.
- Do not use in recirculating systems such as flocoaters or curtain coaters. Recirculating paint lines are acceptable.
- **Temperature must be above 70°F during application and cure to ensure acceptable coating properties. Coatings cured a lower temperatures are prone to cracking, checking and brittleness.**
- Natural finished wood will change color on aging and exposure to light. This is a natural phenomenon. Clear finishes will not prevent the wood from changing color.
- Maximum dry film thickness of the coating system is 4.0 mils.

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.