SHER-WOOD® Water White Conversion Varnish

Gloss V84V80
Dull Rubbed Effect……..V84F83
Medium Rubbed Effect……..V84F82
Custom Blend……...V84FX Series
Bright Rubbed Effect……..V84F81
See Mixing Ratio for Catalyst Options

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 providing good resistance to yellowing
- High Build - 35% volume solids
- Meets test requirements of the Kitchen Cabinet Manufacturers Association (KCMA) for finishes
- Excellent toughness and mar resistance
- Excellent moisture resistance
- Excellent resistance to household chemicals
- Excellent cold check resistance
- Meets AWI system 4 for Conversion Varnish
- 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
- Good "hang" on vertical surfaces
- Ideal for kitchen cabinets, vanities, chairs, office furniture, and a wide range of interior wood products

Air Quality Data (Theoretical):

- Photochemically reactive
- Volatile Organic Compounds (VOC) Theoretical as packaged, maximum, less exempt solvents: 4.40 lb/gal, 528 g/L
- Volatile Organic Compounds (VOC) Catalyzed and reduced 15% with R6K18: 4.78 lb/gal, 573 g/L less exempts
- Volatile Hazardous Air Pollutants (VHAPS) catalyzed and reduced 15% with Butyl Acetate R6K18: 0.54 lb/lb of solids

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

An Environmental Data Sheet is available from your local Sherwin-Williams facility, or at www.paintdocs.com.

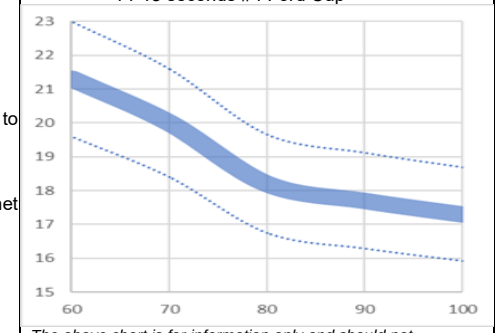
CHARACTERISTICS

Gloss:

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

Volume Solids: 35 ± 1%

Package Viscosity:
17-22 seconds #2 Zahn Cup
14-18 seconds #4 Ford Cup



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

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 (1.5 mils, 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°

Flash Point: 40°F PMCC

Package Life: 24 months, unopened

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, compatability and performance prior to full scale application.

CHARACTERISTICS

Mixing Ratio, Sealer:

Catalyze

1 part	Conversion Varnish
3% (3.84 oz/gal)	V66V21 (by volume)
Or	
10% (12.8 oz/gal) (by volume)	V66V20005 V66V20006 V66V20007

Reduce 15% Butyl Acetate (R6K18)

Mixing Ratio, Topcoat:

Catalyze

1 part	Conversion Varnish
3% (3.84 oz/gal)	V66V21 (by volume)
Or	
10% (12.8 oz/gal) (by volume)	V66V20005 V66V20006 V66V20007

Reduce 5% Butyl Acetate (R6K18)

Pot Life: 24 hours

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.

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 and T67F6 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 – 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. Dry – 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.

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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"

Reduction:
Reduce with Butyl Acetate R6K18, MAK R6K30 or HAPS Free Lacquer Thinner R7K305 to maintain HAPS compliance. Toluene, Xylene or High Flash Naphtha 100 may also be used, but are not HAPS compliant. Acetone R6K9 can be used as a HAPS and VOC exempt solvent.

Retard: MAK R6K30 and EEP R6K35 can be used to retard the coating system and maintain low HAPS.

Cleanup:
Clean tools/equipment immediately after use with Butyl Acetate, R6K18 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

(continued in next column)

SPECIFICATIONS(cont)

- SHER-WOOD® Water White Conversion Varnish must be catalyzed 3% with SHER-WOOD® KEMVAR® Catalyst V66V21 or 10% with V66V20005, V66V20006 or V66V20007. 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 or T67F6 catalyzed, or conversion varnish.
- V66V21, V66V20005, V66V20006 and V66V20007 are acids. To prevent acid corrosion and pitting, all equipment should be made of stainless steel. Containers and piping should be stainless steel or plastic.
- 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 pot-life.
- Do not use in recirculating systems such as flow coater or curtain coater equipment. Recirculating paint lines are acceptable.
- **Temperature must be above 70°F during application and cure to ensure acceptable coating properties. Coatings cured at 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 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.

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

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