Industrial Wood Coatings

CC-F33

SHER-WOOD® Pigmented Conversion Varnish

Low Gloss Black..... H66B22
Low Gloss Blending Clear... H66F34
Mono Red Oxide…..... H66R25
See Mixing Ratio for Catalyst Options

Gloss Blending White H66W31
Low Gloss Blending White ..H66W32
Mono Yellow Oxide.....H66Y29
Custom Blend .....H66XX Series

DESCRIPTION

SHER-WOOD® Pigmented Conversion Varnish is a high solids catalyzed wood finishing system with full hiding opaque colors. It offers superior quality for furniture, cabinets and other interior wood products.

Advantages:

- Full hiding colors
- Meets the test requirements of the Kitchen Cabinet Manufacturers Association (KCMA) for finishes.
- High solids and build
- Good non-yellowing properties
- Self-sealing - Use the same product as sealer
- Ready to spray after catalyzation
- Air dry or force dry cure
- Excellent toughness and mar resistance
- Excellent moisture resistance
- Excellent resistance to household chemicals
- Texturable - ideal for low gloss smooth coat - texture coat applications. Appearance similar to textured polyurethanes
- Wide range of color and gloss available
- Suitable for solid hardwood and softwood, particle board, medium density fiberboard and veneers. Sher-Wood Precat Primer Surfacer E63W330 may be required to fill the substrate.
- Ideal for kitchen cabinets, vanities, office furniture, household furniture, and a wide range of interior wood products

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

Air Quality Data:

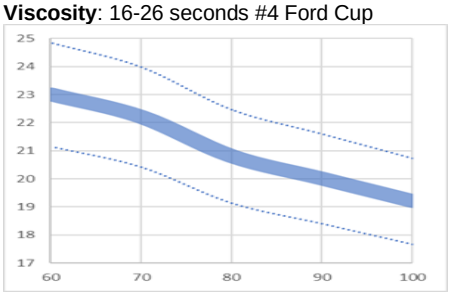
- Photochemically reactive
- Volatile Organic Compounds (VOC) theoretical as packaged, maximum: 4.6 lb/gal, 550 g/L
- VOC Catalyzed 3% with V66V21, maximum: 4.6 lb/gal, 550 g/L
- Volatile Hazardous Air Pollutants (VHAPS) as packaged, maximum: Less than 0.8 lbs per pound of solids

CHARACTERISTICS

Gloss: Gloss 80-85 units
Low Gloss 20-25 units
Intermixing 20-85 units

Volume Solids: 40 ± 2%
may vary by color

Viscosity: 16-26 seconds #4 Ford Cup



Recommended film thickness:
Mils Wet 3.0 - 5.0
Mils Dry 1.2 - 2.0

Spreading Rate (no application loss) 305-561 sq ft/gal @ 1.2-2.0 mils DFT

Drying (1.5 mils dft, 77°F, 50% RH): To
Touch: 10-15 minutes
To Recoat: 20-30 minutes
To Sand: 30-35 minutes
Force Dry: 30 minutes at 120°F or 10 minutes at 150°F

Flash Point: 50-56°F PMCC

Mixing Ratio:
1 part Conversion Varnish

3% (3.84 oz/gal) Catalyst V66V21
)

Or

10% (12.8 oz/gal) V66V20005 V66V20006 V66V20007 (by volume)

Pot Life: 24 hours
Package Life: 24 months, unopened

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.

Wood Finishing System

1. Primer – Self prime with H66 series. If a vinyl sealer is preferred, use catalyzed T67F3, T67F5 or P63W2 vinyl sealers. If a primer-surfacer is needed for more filling, prime with E63W330 Precat Primer Surfacer. See corresponding data sheet for details for film thickness, dry time, sanding and recoat instructions.
2. Sanding – Reference primer or sealer data sheets for sanding details. If self-priming with H66 series, sand after 30 minutes with 400-600 grit sand paper and remove dust.
3. Topcoating – Apply Pigmented Conversion Varnish at 3.0 - 5.0 wet mils. Allow 30 minutes air dry between coats. Apply additional coat as desired at 3.0 – 5.0 wet mils. **Maximum dry film thickness of the total system (including Sealer or Primer Surfacer) must not exceed 4 mils because heavier films may cause cracking.**

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.

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APPLICATION

Typical Setups

Reduction: Reduction is normally not needed. If required, reduce up to 10% with Butyl Acetate R6K18, EEP Reducer R6K35 or MAK, R6K30. Xylene or High Flash Naphtha may also be used but are not HAPS compliant.

Conventional Spray:
Air Pressure..... 40-50 psi
Fluid Pressure ..... 6-8 psi

Airless Spray:
Pressure .....1200-1800 psi
Tip .....011-.015"

Air Assisted Airless:
Fluid Pressure ..... 600-700 psi
Cap/Tip.....011-.015"
5-10% reduction with R6K35 will assist in application.

HVLP:
Air Pressure.....9 psi
Fluid Pressure ..... 5-10 psi Tip 047

Cleanup:
Clean tools/equipment immediately after use with HAPS Compliant Lacquer Thinner R7K320. Lacquer Thinner R7K120 or R7K22 may also be used but are not HAPS compliant. Follow manufacturer's safety recommendations when using any solvent.

ADDITIONAL INFORMATION

- Maximum film thickness of the total system (including Sealer or Primer Surfacer) must not exceed 4 mils dry film because heavier films may cause cracking.
- For interior use only.
- Working pot life is 24 hours maximum at 77°F. While catalyzed varnish remains a low viscosity liquid beyond 24 hours, it should not be used beyond pot life because a chemical reaction is taking place. The resultant film may have inferior cure and crosslinking and a tendency for long term cold checking. At higher temperatures working pot life is much shorter.
- To maintain HAPS compliance only re- duce with HAPS compliant reducers.
- To extend the pot 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 extends the working pot life. Do not blend Pigmented Conversion Varnish with other conversion varnish qualities because it will dramatically reduce performance with cracking and checking problems.

ADDITIONAL INFORMATION

- Sher-Wood Pigmented Conversion Varnish must be catalyzed 3% with V66V21,, V66V20005, V66V20006 or V66V20007 for cure. Do not over catalyze. Higher catalyst levels may cause cracking over time. Higher catalyst levels affect crosslinking rates and film properties.
- Temperatures 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. Do not pack or stack finished parts with less than the dry time listed below:

Board Surface Temperature		Time
	150°F	10 minutes
or	120°F	30 minutes
or	70°F	24 hours

- Do not apply over nitrocellulose lacquer sealers, as they may cause wrinkling or long-term checking or cracking.
- 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. Acid reacting with iron or steel will cause a discoloration of conversion varnish.
- Gloss Clear or Low Gloss Clear is intended for custom blending. They are not recommended as clear topcoats. For a clear over white varnish, Water White Conversion Varnish is recommended because of its resistance to yellowing.
- Do not exceed 2.0 mils dry film per coat because heavy wet films may cause film surface imperfections and slow dry time.
- Routed MDF must be pre-sealed with Vinyl Sealer reduced 50-100% prior to the application of KemVar Precat Primer Surfacer E63W330.
- For full sharp gloss appearance, sand intermediate coats with very fine (400-600) grit paper to prevent telegraphing of sand marks.
- Do not use in recirculating systems such as flowcoaters or curtain coaters because of accelerated cure due to aeration. Recirculating paint lines are okay.
- H66 Series Pigmented Conversion Varnish monos can be intermixed at any ratio for custom color and custom gloss development. Phoenix colorants can be added up to 3 oz. per gallon maximum.

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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