



T-Var™ KC05 Series Water White Conversion Varnish

Gloss	KC05-CSA01	Bright Rubbed Effect	KC05-FSA02
Medium Rubbed Effect	KC05-FSA03	Dull Rubbed Effect	KC05-FSA04
Catalyst	CT01-CSA01		

PRODUCT DESCRIPTION

T-Var KC05 Series 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. Water White Conversion Varnish offers superior performance properties for institutional and office furniture, cabinets and interior woods products.

FEATURES

Gloss:	Full	Drying (77°F, 50% RH)	
BRE	55-60 Units	To Touch:	10-15 Minutes
MRE	34-38 Units	To Handle:	15-30 Minutes
DRE	17-21 Units	To Sand:	30-60 Minutes
Weight Solids:	40.5%± 2%	To Recoat:	30-60 Minutes
Volume Solids:	35.0%± 1%	To Pack/Stack:	Overnight
Viscosity:	17-22 seconds #2 Zahn Cup	Force Dry:	5-20 Minutes at 110-160°F
	14-18 seconds #4 Ford Cup		
Recommended Film Thickness:	Mils Wet 2.5-4.0		
	Mils Dry 0.8-1.2	Mixing Ratio, Sealer:	
Spreading Rate: (no application loss)	@ 1 mil dft: 552 sq ft/gal	1 part	Conversion Varnish
Flash Point:	6°F PMCC	3%	Catalyst: CT01-CSA01
Package Life:	1 year, unopened	Pot Life:	24 Hours
Cold Check:	Resistance 15 cycles		
Print Resistance:	No print, 18 hours air dry at 2 psi at 77°F in direct contact with 8 oz. duck cloth.		
Air Quality Data:	Photo-chemically reactive.		
Material VOC:	4.6 lb/gL 550 g/L		
Coating VOC:	4.6 lb/gL 550 g/L		
	Volatile Organic Compounds (VOC) reduced and catalyzed: 4.6 lb/gal, 550 g/L (When reduced with Acetone or TTC Exempt Solvent RS01-CSA01.		
	An Air Quality Data Sheet is available from your local	Tewksbury Technical Coatings	facility.
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BRE	55-60 Units	To Touch:	10-15 Minutes
MRE	34-38 Units	To Handle:	15-30 Minutes
DRE	17-21 Units	To Sand:	30-60 Minutes
Weight Solids:	40.5%± 2%	To Recoat:	30-60 Minutes

BENEFITS

- Water white clarity
- Good resistance to yellowing
- High solids – 40.5% weight solids
- High build – 35.0% volume solids
- No reportable Formaldehyde (less than .05% by weight)
- Fast drying
- Self sealing – use the same product as a sealer
- Will not blush like lacquer products
- Good “hang” on vertical surfaces
- Excellent toughness and mar resistance
- Excellent moisture resistance
- Excellent resistance to household chemicals
- Excellent cold check resistance
- Free of lead and chromate hazards
- VOC as packaged: 550 Grams per liter

- Meets the test requirements of the Kitchen Cabinet Manufacturers Association (KCMA)
- 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

FINISHING SYSTEM

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%.

Testing: Due to the wide variety of substrates, surface preparation of methods, application methods, and environments, the customer should test the complete system for adhesion and compatibility prior to full-scale application.

1. Seal with TTC Vinyl Sealer, KC13-FSA01 or T-Var™ Water White Conversion Varnish, catalyzed and reduced as a sealer. Spray a full wet coat, air dry 30 minutes or force dry 5-20 minutes at 110-160°F.
2. Sand with 220-280 grit paper, remove sanding dust.
3. Topcoat – Catalyze T-Var™ Water White Conversion Varnish as a topcoat. For more depth, apply a second coat.
4. Allow overnight dry before packing or stacking. Coating must be applied and dried at a temperature of 70°F or higher to ensure acceptable coating properties. Force drying may be used. Apply each coat at 3-4 mils wet. Maximum dry film thickness of the system must not exceed 5 mils because heavier films may cause cracking.
5. Clean tools/equipment immediately after use with TTC Exempt Solvent RS01-CSA01. Follow manufacturer's safety recommendations when using any solvent.

CONVENTIONAL SPRAY		AIR ASSISTED AIRLESS		AIRLESS SPRAY		ELECTROSTATIC SPRAY	
Air Pressure:	40-50 psi	Air Pressure:	10-25 psi	Pressure:	1200-1800 psi	Substrate must be conductive.	
Fluid Pressure:	6-8 psi	Fluid Pressure:	400-800 psi	Tip:	.011-.015"		
		Cap/Tip:	.011-.015"				

PRODUCT LIMITATIONS

- TTC T-Var™ WF06 Series Water White Conversion Varnish must be catalyzed 3% prior to use with TTC Catalyst, CT01-CSA01. Do not over catalyze. Do not use any other catalyst with TTC T-Var™ WF06 Series Conversion Varnishes.
- Do not use over conventional nitrocellulose lacquer sealers. Seal with TTC Vinyl Sealer WF05-FSA02 catalyzed, or TTC T-Var™ WF06 Series conversion varnish.
- TTC Catalyst CT01-CSA01 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.
- For interior use only.
- 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 cross-linking 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 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 at a lower temperature are prone to cracking, checking and brittleness.
- Do not pack or stack finished parts with less than full cure.
- Natural finished woods (unstained) will change color on aging and exposure to light. This is a normal phenomenon. Clear finishes will not prevent the wood from changing color. Maximum dry film thickness of the coating system is 5.0 mils.
- T-Var™ will not "re-wet" like a conventional Nitrocellulose Lacquer. Therefore, applying a second coat must be done "Wet on Wet" after a brief flash off or after curing.

CAUTIONS
Thoroughly review product label for safety and cautions prior to using this product. A Material Safety Data Sheet is available from your local Tewksbury Technical Coatings facility. Please direct any questions or comments to your local Tewksbury Technical Coatings facility or call 1-888-TEWKSBURY.
LABEL CAUTIONS Interrupting the curing process with a second coat can cause crazing cracking or checking.
Contents are FLAMMABLE . Vapors may cause flash fires. Keep away from heat, sparks, and open flame. During use and until all vapors are gone: Keep area ventilated – Do not smoke – Extinguish all flames, pilot lights, and heaters – Turn off stoves, electric tools and appliances, and any other sources of ignition. SEE CONTENTS STATEMENT ON LABEL.
VAPOR HARMFUL . Avoid breathing vapor and spray mist. Use only with adequate ventilation. Before initial use, consult OSHA's Standard for Occupational Exposure to Formaldehyde (29 CFR 1910, 1048). A properly fitted full face respirator effective for particulates, organic solvent and formaldehyde or an air supplied respirator must be worn, unless air monitoring demonstrates vapor/mist levels are below applicable limits. Follow respirator manufacturer's directions for respirator use. Avoid contact with eyes and skin. Wash hands after using. Keep container closed when not in use. Do not transfer contents to other containers for storage.
FIRST AID: If INHALED: If affected, removed from exposure. Restore breathing. Keep warm and quiet. If on SKIN: wash affected area thoroughly with soap and water. Remove contaminated clothing. If in EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention. If SWALLOWED: Get medical attention immediately.
SPILL AND WASTE: Remove all sources of ignition. Ventilate and remove with inert absorbent. Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State, and Local regulation regarding pollution.
DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Contains solvents, which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. Contains Formaldehyde – a potential cancer hazard.
Warning: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.
DO NOT TAKE INTERNALLY. KEEP OUT OF THE REACH OF CHILDREN. FOR INDUSTRIAL USE ONLY. SEE MATERIAL SAFETY DATA SHEET.

Note: 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, Tewksbury Technical Coatings cannot make any warranties as to the end result.