M.L. CAMPBELL®

WOOD FINISHING SYSTEMS

PRODUCT: **ULTRA-VAR™ CATALYZED VARNISH**

CODES:
C155 12 Dull
C155 14 Satin
C155 16 Semi-Gloss
C155 18 Gloss

DESCRIPTION: M.L. Campbell ULTRA-VAR Catalyzed Varnish was developed to be used on any wood surface where a high-performance, moisture and chemical resistant finish is needed. ULTRA-VAR is a ready to spray, low HAP's, two component (amino-alkyd) finishing system. It has the durability of catalyzed varnish without the problems of application, slow drying or the odor associated with other older technologies.

USES: M.L. Campbell created ULTRA-VAR Catalyzed Varnish to be used as a furniture finishing system. The different areas of use include: kitchen and bathroom cabinets, display fixtures, office, dormitory, household, institutional and laboratory furniture.

PHYSICAL PROPERTIES: (PACKAGED)

Weight per Gallon:	7.98 ± .1 lbs.
Viscosity - Ford #4 @ 77°F (25°C):	30-35 seconds
% Solids by Weight:	32 ± 2
% Solids by Volume:	25 ± 2
Theoretical Coverage at 1 mil Dry:	400 ± 10 sq. ft. per gal. (with no loss factor)
Flash Point (PMCC):	20°F (-6°C)
Color:	2-4 GH Hazy
Sheen (60° Glossmeter):	
Gloss	80+
Semi-Gloss	65 ± 2
Satin	35 ± 2
Dull	15 ± 2
V.O.C.:	643-652 g/l (5.36-5.43 lbs./gallon)
V.O.C. as applied (catalyzed 10%):	650-658 g/l (5.42-5.48 lbs./gallon)
Photochemically Reactive:	Yes

SURFACE PREPARATION: ***New Work:*** Remove any dirt, grease or other construction contamination and sand wood as required. Use M.L. Campbell WoodSong II or Microton stains.

Old Work: Strip old finish and remove all contaminants from the surface. When surface is dry, sand as required. If cratering develops and the contamination is not severe, then use Fish Eye Killer, M.L. Campbell WR 5 to rectify the problem.

MIXING: ULTRA-VAR must be catalyzed at a ratio of 10 parts ULTRA-VAR to one part catalyst C149-1 or 12.8 ounces of catalyst per gallon of ULTRA-VAR. No reduction is recommended. If reduction is necessary, then use M.L. Campbell C160 36 Lacquer Thinner. A reduction of 5-19% will still keep ULTRA-VAR below a V.O.C. level of 670 g/l (5.58 lbs./gallon). Pot life is 12 hours. Agitate during application.

OVER…

APPLICATION PROCEDURE: Catalyzed cross-linked coatings develop extremely durable finishes, but require controlled preparation and application. ULTRA-VAR has been formulated to be a self-sealing finish.

Too much coating weight can cause recoating and/or durability problems in the future. To insure that this does not occur, apply material 4-5 mils wet per coat. The dry mil thickness should not exceed 4-5 mils. Using a Fre-Cut (no fill) sand paper, sand between coats, being careful to not sand through the base coat before recoating. Two coats of ULTRA-VAR creates a durable finish. Do not exceed three coats.

If you require a sealer, use a vinyl sealer or ULTRA-VAR as its own sealer. The use of conventional nitrocellulose sealers containing stearates are NEVER recommended.

Refer to spray equipment suppliers, recommendations for fine lacquer atomizing spray guns, air caps and fluid needles. Note: Hot spray application is not recommended. If hot spray equipment is used, temperature setting should never be over 110°F (43°C).

EQUIPMENT CLEANUP: Use lacquer thinner to clean up all equipment. Dispose of dirty solvent and cleaning rags in a safe and approved manner. Solvent or lacquer-soaked rags should be stored in water-filled, closed containers prior to disposal.

DRYING TIME:

at 77°F (25°C)	Dry to Touch	10-20 minutes
	Sanding Dry	15-30 minutes
	Stacking Dry	12 Hours
at 120°F (49°C)	Dry to Touch	5-10 minutes
	Sanding Dry	8-12 minutes
	Stacking Dry	30-60 minutes

ULTRA-VAR can be force dried at temperatures of 120°F (49°C). If air dried, it can be packed for shipping on the same schedule used for conventional nitrocellulose products.

PACKAGE & SHIPPING WEIGHT: 5 Gallon Unit
43 lbs. carton
Also available in 55 gallon drums

SHELF LIFE & STORAGE: Store in cool, dry areas in the original sealed containers. Do not store around any source of flames or sparks. Spills should be cleaned up with non-sparking tools and inert absorbent material. Package life 3 years.

DOT CLASSIFICATION: Flammable Liquid, Red Label, UN 1263.

B/L DESCRIPTION: Paint, UN 1263, 3, PG II.

CAUTION: **THESE PRODUCTS ARE DESIGNED FOR PROFESSIONAL USE ONLY**
Use only after all safety information is understood. Refer to “Material Safety Data Sheet” for additional information.

TESTING: Due to the wide variety of substrates, surface preparation methods, application methods, and environments, customers should test the complete system for adhesion and compatibility under their conditions prior to full scale application.

NOTE: The information, rating, and options 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, M.L. Campbell cannot make any warranties as to the end result.

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