

Product Information (PI) Sheet

Product: EnviroVar Formaldehyde Free Conversion Varnish – 5%

Code(s):	C135422 Dull	C135424 Satin	C135426 Semi-Gloss	C135428 Gloss
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Description: EnviroVar Formaldehyde Free Conversion Varnish was developed using M.L. Campbell's solvent borne breakthrough Clean Cure™ Technology. This exceptional technology platform provides an acid cure formaldehyde free amino-alkyd post-catalyzed conversion varnish that is both low odor and HAPs free helping to create a safer work environment. This self-sealing system applies and sands easily, cures at normal ambient temperature and dries to a smooth touch finish with superior durability, depth, clarity, and aesthetics. EnviroVar contains UV additives for added UV protection and to improve yellowing resistance. EnviroVar Formaldehyde Conversion Varnish was specifically formulated to eliminate formaldehyde off gassing concerns from acid cure coatings on commercial and residential projects and is GREENGUARD Indoor Air Quality Certified.

Uses: EnviroVar Formaldehyde Free Conversion Varnish meets or exceeds all KCMA testing and was developed for use on kitchen and bathroom cabinets, dormitory, display fixtures and household or office furniture. Not recommended for use over most pigmented colors, white or pastel stains and glazes.

Other Products: For catalyst use 1052 Clean Cure 5% Post-Cat Catalyst. For lacquer thinner use C162 1 Care Reducer or C160 36 M.L. Campbell Lacquer Thinner. For retarder use C161 1 M.L. Campbell Care Retarder. For a non-yellowing finish use Krystal, KlearVar or High Performance Conversion Varnish.

Physical Properties (packaged)	
Weight per Gallon:	7.86 lbs.
Viscosity - Ford #4 at 77°F/25°C:	22-28 seconds
% Solids - by Weight:	36 ± 3 varies by sheen
% Solids - by Volume:	28.6 ± 3 varies by sheen
Theoretical Coverage at 1 Mil Dry: (Coverage figures DO NOT INCLUDE spray loss. Also allow for surface irregularities and porosity of wood surface to be finished.)	459 sq. ft. per gallon
Flash Point (PMCC):	52°F
Color:	1-4 GH Hazy
Sheen (60° Glossmeter):	Dull 15 Satin 35 Semi Gloss 65, Gloss 80 +
Packaged VOC:	602.52 g/l (5.02 lb/gal)
Photochemically Reactive:	No

Surface Preparation

New Work:	Remove any dirt, grease or other contamination and sand as required. If desired, apply WoodSong II stain as directed by the specific M.L. Campbell Product Information (PI) Sheet, prior to finishing.
Old Work:	Strip old finishes completely and remove all contaminants from the surface. Make sure surface is dry. Finish as new work.

Mixing and Catalyzing

Mix well before using. Material may separate during long-term storage. Catalyze EnviroVar Formaldehyde Free Conversion Varnish with 5% by volume (20:1) with C1052 Clean Cure 5% Post-Cat Catalyst. Always mix in catalyst thoroughly before application. No waiting period (sweating in time) is necessary before using this product. After catalyzing there is a 24 hour pot life.

Reduction

No reduction is required; however, small amounts of C162 1 Care Reducer may be used if required for specific equipment. If blushing occurs use C161 1 Care Retarder.

Application Procedure

EnviroVar Formaldehyde Free Conversion Varnish is formulated to be self-sealing and have excellent sanding properties. When sanding between coats, use Fre-Cut (no fill) type sand paper. If a sealer is desired use C135429 EnviroVar Formaldehyde Free Sealer.

Catalyzed (cross-linked) type coatings develop extremely durable finishes, but require controlled application procedures. Do not apply material too heavy per coat (4 to 5 mils wet per coat are recommended). Too much coating weight can cause recoating and durability problems. A light (scuff) sanding between coats using 280-320 sandpaper is always recommended. The total dry film build should be at least 2.5 mils and should not exceed 5 dry mils. EnviroVar should be applied when temperatures in the spray room are at a minimum of 68°F (20°C). Always agitate thoroughly during application.

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 settings should never be over 110°F or 43° C.

Equipment Clean Up

- Use Standard Lacquer Thinner or Fast Reducer VOC Exempt 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 Times (at 77° F or 25° C)

Dry to Touch:	15-20 minutes
Sanding Dry:	40-60 minutes
Stacking Dry:	6-12 hours

Packaging/Shipping

Available Units: Gallons and Pails

Shelf Life and Storage

- Package life 2 years - Store in a cool, dry area 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.

DOT Classification

Flammable Liquid	Red Label	UN 1263		
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B/L Description

Paint	UN 1263	3	PG II	
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Caution

- **THESE PRODUCTS ARE DESIGNED FOR SHOP APPLICATION AND PROFESSIONAL USE ONLY.**
- Use only after all safety information is understood.
- Refer to the Material Safety Data Sheet (MSDS) 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.

Notes

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 that are not known or under our control, M.L. Campbell cannot make any warranties as to the end result. *Thank you for using M.L. Campbell Wood Finishing products.*