

Product Information (PI) Sheet

Product: EnviroVar Formaldehyde Free Conversion Varnish
White/Opaque

Code(s):	W133322 Dull	W133324 Satin	W133328 Gloss	
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Description: EnviroVar Formaldehyde Free Conversion Varnish White/Opaque was developed using our breakthrough solvent borne Clean Cure™ Technology. This exceptional technology platform provides an acid cure formaldehyde free amino alkyd post-catalyzed varnish that is both low odor and HAPs free; creating a safer work environment and improving indoor air quality once a project is installed. EnviroVar Formaldehyde Free Conversion Varnish White/Opaque is GREENGUARD certified and was specifically formulated to eliminate formaldehyde off gassing concerns from acid cure coatings on commercial and residential projects. EnviroVar Formaldehyde Free Conversion Varnish White/Opaque an extremely durable product with excellent resistance to yellowing, making it ideal for wood kitchen cabinets, commercial millwork, furniture and commercial displays.

Uses: EnviroVar Formaldehyde Free Conversion Varnish White/Opaque is a furniture quality lacquer designed for use on kitchen and bathroom cabinets, dormitory, household, display fixtures, hospital and office furniture and the wood parts of upholstered furniture.

Other Products: For lacquer thinner, use C162 1 M.L. Campbell Care Reducer. For a base coat, use Envirolock Formaldehyde Free Post-Cat Primer/Undercoater. Clear topcoats are not necessary in most cases. However, if a clear topcoat is desired or needed use EnviroVar Formaldehyde Free Conversion Varnish Clear topcoat. If a non-yellowing protective clear topcoat is required to protect a glaze finishing system over EnviroVar, please refer to Krystal. At this point, non-yellowing clear topcoats are not available in Clean Cure formaldehyde free technology. For a non-yellowing system use Krystal over Stealth White/Opaque.

Physical Properties (packaged)	
Weight per Gallon:	8.64 +/- 0.2 lbs
Viscosity - Ford #4 at 77°F/25°C:	30- 40 seconds
% Solids - by Weight:	41.3 ± 2%
% Solids - by Volume:	29.52 +/- 25%
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.)	471 sq. ft. per gallon (474)
Flash Point (PMCC):	54°F
Color:	Opaque White
Sheen (60° Glossmeter):	Dull 15 +/-2 , Satin 35 +/-2, Gloss 80+
Packaged VOC:	583 ± 20 g/l (4.89 lbs./gallon)
Photochemically Reactive:	No

Surface Preparation

New Work:	Remove any dirt, grease or other contamination and sand as required.
Old Work:	Strip old finishes completely and remove all contaminants from the surface. Make sure surface is dry. Finish as new work. If cratering develops on old work, Fish Eye Killer may remedy this problem, if the contamination is not too severe.

Reduction, Catalyzing, and Potlife

No reduction is required; however, small amounts of C162 1 Care Reducer or C16036 Standard Lacquer Thinner may be used if required for specific equipment. EnviroVar Formaldehyde Free Conversion Varnish White/Opaque needs to be catalyzed 5% by weight or volume with C1052 catalyst. Mix immediately after catalyzing. Potlife is 10 to 12 hours after catalyzing.

Mixing

Mix well before using. Material may separate during long-term storage.

Tinting

Please note that the addition of colorant to pigmented coatings, in direct relationship to the amount of colorant used, will detract from the overall durability of the coatings and can also affect luster. We recommend a color limitation in the White/Opaque Base of (8) ounces per gallon and in the Clear Base (10) ounces per gallon. Only tint EnviroVar White/Opaque M.L. Campbell Industrial Colorants. DO NOT tint with colorants that contain glycol.

Application Procedure

Post-catalyzed type coatings develop very durable finishes but require controlled application procedures. An excellent long lasting finish can be developed by applying two coats of EnviroVar Formaldehyde Free Conversion Varnish White/Opaque over one or two coats of Envirolock Formaldehyde Free Post-Cat Primer/Undercoater.

When applying a color over the Primer/Undercoater, it is recommended that you tint it to the approximate finished color. Following the application of the Primer/Undercoater, apply no more than two coats of M.L. Campbell EnviroVar Formaldehyde Free Conversion Varnish White/Opaque Lacquer. Remember that light scuff sanding in between coats is always recommended. When sanding between coats, use 320 Grit Fre-Cut (no fill) sandpaper. Clear topcoats are not necessary in most cases. However, if a clear topcoat is desired or needed, use EnviroVar Formaldehyde Free Conversion Varnish Clear topcoat. For a non-yellowing system use Krystal over Stealth White/Opaque. Always agitate the product thoroughly during application. Too much coating weight can cause problems. The total recommended dry mil film thickness after sanding should not exceed 5 mils dry.

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 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.

(at 77° F or 25° C) Drying Times

Dry to Touch:	30-40 mins
Sanding Dry:	40-60 mins

Stacking Dry:	12 hours
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Packaging/Shipping	
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Available Units:	Gallons and Pails
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Shelf Life and Storage	
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- 24 months shelf life - Store in cool, dry areas in the original sealed containers
- Pot life of 10-12 hrs
- 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		
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Flammable Liquid	Red Label	UN 1263
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B/L Description			
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Paint	UN 1263	3	PG II
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Caution	
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- **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	
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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	
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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.*