

Product Information (PI) Sheet

Product: DuraVar Plus Post-Catalyzed Finish

Code(s):	C142 12 Dull	C142 14 Satin	C142 16 Semi-Gloss	C142 18 Gloss
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Description: M.L. Campbell DuraVar Plus is a post catalyzed, self-sealing, two component finishing system (amino-alkyd) supplied in a stain resistant, long lasting formulation. DuraVar Plus develops a finish that is as durable as a catalyzed varnish without the problems of application, slow drying and odor associated with old technology formulations of catalyzed varnishes. In addition, DuraVar Plus is formulated to meet world E-1 standards for providing a safer work environment. This means DuraVar Plus is formulated with no HAPs solvents and ultra low formaldehyde release. DuraVar Plus is another generation of European tested, technologically advanced products from M.L. Campbell.

Uses: DuraVar Plus was developed for use on kitchen and bathroom cabinets, dormitory, household, office or laboratory furniture, and display fixtures where a high-performance, moisture and chemical resistant finish is needed.

Other Products: For catalyst use C149 1 M.L. Campbell Care Catalyst. For lacquer thinner use C160 36 M.L. Campbell Lacquer Thinner. For retarder use C161 1 M.L. Campbell Care Retarder. For a water clear finish over white or pastel stains use Krystal or KlearVar.

Physical Properties (packaged)	
Weight per Gallon:	7.91 ± .1 lbs.
Viscosity - Ford #4 at 77°F/25°C:	30-35 seconds
% Solids - by Weight:	41 ± 2
% Solids - by Volume:	32 ± 2
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.)	514 ± 25 sq. ft. per gallon (with no loss factor)
Flash Point (PMCC):	40-48°F or 5-8°C
Color:	2-5 GH Clear to Hazy
Sheen (60° Glossmeter):	Dull: 15 ± 2, Satin: 35 ± 2, Semi-Gloss: 65 ± 2, Gloss: 80+
Packaged VOC:	559-566 g/l (4.68-4.72 lbs./gallon), Catalyzed @ 10%: 573-579 g/l (4.78-4.83 lbs./gallon)
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.

Reduction

DuraVar Plus post-catalyzed finish is supplied ready to spray. No reduction is required. If reduction is necessary, use M.L. Campbell C160 36 Lacquer Thinner. Maximum reduction of 10-15% recommended*.

* A reduction of 10-15% will still keep DuraVar Plus below V.O.C. level of 670 g/l (5.58 lbs./gallon).

Mixing

DuraVar Plus has been developed to start its cross-linking (drying) with the addition of 12.8 ounces of C149 1 Care Catalyst per gallon (10:1 ratio). Always mix the catalyst thoroughly before application. No waiting period (sweating in time) is necessary before using this product. After catalyzation, DuraVar Plus will have best performance properties if used before pot life (usable time) of eight hours.

Application Procedure

DuraVar Plus post catalyzed finish is formulated to be self-sealing and have excellent sanding properties. When sanding between coats, use Fre-Cut (no fill) type sand paper. Although not necessary, if the use of a sealer is required, use a vinyl sealer or Krystal sealer. The use of conventional nitrocellulose sealers containing stearates are never recommended.

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 is always recommended. An excellent, very durable finish can be developed by applying just two coats (apply not more than three coats). Recommended dry mil film thickness should not exceed 5 mils dry. 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 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	(at 120°F or 49°C)
Dry to Touch:	15-25 minutes		5-10 minutes
Sanding Dry:	15-30 minutes		8-12 minutes
Stacking Dry:	12 hours		30-60 minutes
* DuraVar Plus 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.			

Packaging/Shipping	
Available Units:	Gallons, Pails and Drums.

Shelf Life and Storage
<ul style="list-style-type: none"> • Package life 3 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	

B/L Description				
Paint	UN 1263	3	PG II	

Caution
<ul style="list-style-type: none"> • 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. <i>Thank you for using M.L. Campbell Wood Finishing products.</i>