

Product Information (PI) Sheet

Product: KlearVar (CV 200) Conversion Varnish

Code(s):	C116622 Dull	C116624 Satin	C116626 Semi-Gloss	C116628 Gloss
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Description: KlearVar is a high solids, water white, non-yellowing, post-catalyzed amino alkyd finishing system that leaves a unique smooth to the touch finish. It is a low odor, self-sealing, easy to apply formulation that has exceptional resistance to water, solvents, and household chemicals. KlearVar represents the latest in durable, long-lasting wood finishing technology.

Uses: KlearVar was specifically designed for kitchen cabinets, furniture, interior wood projects and surfaces that are exposed to moisture, heat, and household chemicals. KlearVar is also acceptable for use on pre-finished wood flooring.

Other Products: For catalyst, use C1491 Care Catalyst at 10% ratio. For lacquer thinner, use Standard Lacquer Thinner C160 36. For retarder, use C161 1 Care Retarder. WoodSong II Microton Toners or Woodsong II Stains are the only stains recommended for use with M.L. Campbell products.

Physical Properties (packaged)	
Weight per Gallon:	7.8 lbs. ± .3
Viscosity - Ford #4 at 77°F/25°C:	13 – 19 seconds
% Solids - by Weight:	39.10 ± 3
% Solids - by Volume:	32.0 ± 3
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.)	513 sq. ft. per gallon ± 5
Flash Point (PMCC):	65°F (18.9° C)
Color:	Clear
Sheen (60° Glossmeter):	Dull:15 ± 3, Satin:35 ± 3, Semi-Gloss:65 ± 3, Gloss:>80
Packaged VOC as Catalyzed with C1491 Care Catalyst: (Check label or MSDS for VOC by sheen)	551±15 g/l or 4.60 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	
No reduction required, however small amounts of lacquer thinner (C160 36 Lacquer Thinner or C162 1 Care Reducer) may be used if required for specific equipment. If blushing occurs use M.L. Campbell C163 Flow 2 or C161 1 Care Retarder.	

Mixing

KlearVar has been developed to start its cross-linking (drying) with the addition of Care Catalyst:

- Use 10% C1491 Care Catalyst **or** 5% C1431 Care Catalyst Low VOC

Always add and mix the catalyst thoroughly before any reduction and application. No waiting period (sweating in time) is necessary before using this product. After catalyzation and reduction, KlearVar has a pot life (usable time) of eight hours. Be careful not to sand through the base coat before recoating.

Application Procedure

KlearVar is formulated to be a self-sealing system. For best results and maximum durability, KlearVar should be used as it own sealer or use C156 11 Krystal Sealer or C100 25 Water White High Solids. Vinyl Sealer should be catalyzed at 1% with C149-1 when using under KlearVar. The use of conventional nitrocellulose sealers containing stearates are never recommended. Always agitate thoroughly before application. The second or third coat should be applied after complete drying of the previous coat.

Sand between coats using 280-320 sand paper. Always sand just prior to recoating.

The total dry film build should be at least 2.5 mils and should not exceed 5 dry mils. Should be applied when temperatures in the spray room are at a minimum of 68°F or 20° C.

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 heat 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.

Drying Times (at 77° F or 25° C)

Dry to Touch: 5 – 15 minutes

Sanding Dry: 30 – 45 minutes

Stacking Dry: 4 to 6 hours

Packaging/Shipping

Available Units: 5 gallon units, 43 lbs. each

Shelf Life and Storage

- 3 year shelf life
- 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

PG II

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.*