



WOOD FINISHING SYSTEMS

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Product Information (PI) Sheet

Product: Krystal High-Solids Conversion Varnish

Code(s):	C145 12 Dull	C145 14 Satin	C145 16 Semi-Gloss	C145 18 Gloss
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Description: Krystal High-Solids Conversion Varnish is a new generation of post-catalyzed amino alkyd finishing systems that offer the ultimate in durability. Krystal's high solids, water white, non-yellowing, self-sealing system has outstanding application and sanding properties. Krystal meets or exceeds chemical resistance for AWI System 5 Conversion Varnish and System 11 Catalyzed Polyurethane.

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

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. NOTE: 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:	7.93 ± .2 lbs.
Viscosity - Ford #4 at 77°F/25°C:	28-34 seconds
% Solids - by Weight:	42 ± 5
% Solids - by Volume:	34 ± 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.)	524 ± 25 sq. ft. per gallon
Flash Point (PMCC):	60°F
Color:	0-2 GH Hazy
Sheen (60° Glossmeter):	Dull 15, Satin 35, Semi-Gloss 65, Gloss >85
Packaged VOC:	551-560 g/l (4.59-4.67 lbs./gallon), Catalyzed @ 10%: 564-573 g/l (4.62-4.78 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
Krystal High-Solids Conversion Varnish is supplied pre-reduced. No reduction is required. If reduction is necessary, use only M.L. Campbell Lacquer Thinners or Retarders.

Mixing

Krystal High-Solids Conversion Varnish 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 in the catalyst thoroughly before application. No waiting period (sweating in time) is necessary before using this product.

Application Procedure

An excellent, very durable finish can be developed by applying just two coats at 4 to 5 mils wet. Apply no more than three coats keeping in mind that you do not want to exceed a final dry mil thickness of 4 to 5 mils. It is recommended to always sand between coats. Krystal High-Solids Conversion Varnish is formulated as self sealing with excellent sanding properties. For best results and maximum durability, Krystal High-Solids Conversion Varnish should be used as it own sealer or use C156 11 Krystal 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 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:	15 to 25 minutes
Sanding Dry:	30 to 45 minutes
Stacking Dry:	4 - 8 hours

Packaging/Shipping

Available Units:	5 Gallon and Gallons
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Shelf Life and Storage

- Package life 3 years
- Pot Life after Catalyzation: 12 hours
- 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.*