

Product Information (PI) Sheet

Product: Krystal® High Build Sealer

Code(s):

C140729			
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Description: KRYSTAL HIGH BUILD SEALER is a non-yellowing, HAP's compliant, high solids acid catalyzed sealer with exceptional sag resistance. KRYSTAL HIGH BUILD SEALER will produce an easy sanding finish with very good durability and high resistance to water, solvents and chemicals. Fre-cut (no-fill) sandpaper must be used for sanding, 220 grit is recommended. KRYSTAL HIGH BUILD SEALER must be catalyzed 10% with C1491 M.L. Campbell Care Catalyst or 5% with C1431 Care Catalyst Low VOC added to unreduced product prior to use.

Uses: KRYSTAL HIGH BUILD SEALER may be used on any interior wood surface where a high performance, high solids, moisture, water and chemical resistant finishing system is needed. KRYSTAL HIGH BUILD SEALER is much more durable and moisture resistant than conventional nitrocellulose or vinyl sealers with added benefits of easy application, quick drying, high solids and build.

Other Products: For catalyst use C1491 Care Catalyst or C1431 Care Catalyst Low VOC. For lacquer thinner, use C16036 Standard Lacquer Thinner.

Physical Properties (packaged)	
Weight per Gallon	8.09 ± 0.3 lbs.
Viscosity - Ford #4 at 77°F/25°C	23-30 seconds
% Solids - by Weight	36.5 ± 3
% Solids - by Volume	28.7 ± 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.)	461 ± 10 sq. ft. per gallon
Flash Point (PMCC)	65°F or 18°C
Color	Clear
Packaged VOC	614 g/l (5.12 lbs./gal.)
VOC as applied (catalyzed 10% w/C1491)	622 g/l (5.19 lbs./gal.)
Photochemically Reactive	Yes

Surface Preparation	
New Work:	Remove any dirt, grease or other construction contamination and sand wood as required. If desired, use M.L. Campbell WoodSong II stains or Microtone dyes.
Old Work:	Strip old finishes completely and remove all contaminants from surface. When surface is dry, sand as required. Finish as new work. If cratering develops on old work, Fish Eye Killer may remedy this problem, if the contamination is not severe.

Mixing	
KRYSTAL® HIGH BUILD SEALER has been designed to start its cross-linking (drying) with the addition of 10% (12.8 ounces per gallon) of M.L. Campbell C1491 Care Catalyst or 5% (6.4 ounces per gallon) of C1431 Care Catalyst Low VOC. Always mix catalyst in thoroughly before application. No wait time is necessary before using this catalyzed product after catalyzation. KRYSTAL HIGH BUILD SEALER has best performance properties if used within 24 hours.	

Reduction

M.L. Campbell KRYSTAL HIGH BUILD SEALER is shipped at spraying consistency (approx. 20-30 seconds in a Ford #4 Cup). If further reduction is necessary, use M.L. Campbell C16036 Standard Lacquer Thinner.

Application Procedure

KRYSTAL HIGH BUILD SEALER is formulated to be ready to spray after catalyzation, and has excellent sanding between coats. Use Fre-Cut (no fill) type sandpaper. Never use more than two coats of KRYSTAL HIGH BUILD SEALER or apply a complete coating system of over 5 dry mils as film integrity may be affected. Always sand white wood (unfinished) with no more than 140 grit sandpaper before application of KRYSTAL HIGH BUILD SEALER. Catalyzed (cross-linked) coatings develop extremely durable finishes, but require controlled application procedures. Do not apply material in too heavy a film (4 to 5 mils wet are recommended). Too much coating weight can cause recoating and durability problems. A light (scuff) sanding between coats is always necessary. An excellent, very durable sealer coat can be obtained by applying just one coat of KRYSTAL HIGH BUILD SEALER. Recommended total finish system dry mil thickness should not exceed 5 mils dry. Always thoroughly agitate 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 setting 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 a 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
KRYSTAL HIGH BUILD SEALER can be force dried at temperatures of 120° F or 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 and Pails

Shelf Life and Storage

- 36 month shelf life
- Store in cool, dry areas 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.
- If stored at temperatures below 30°F(-1°C), this product may gel. If so, warming to room temperature will restore it to useable condition

DOT Classification

Flammable Liquid	Red Label	UN1263
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WOOD FINISHING SYSTEMS

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B/L Description			
Paint	UN1263	3	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.*

