

Product Information (PI) Sheet

Product: POLARION Fast Dry (FD) Interior Clear

Code(s) :	C36171 Flat	C36172 Dull	C36174 Satin	C36178 Full Gloss
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Description: POLARION FD Interior Clear is a two component acrylic polyurethane that offers exceptional dry, sand, stack and pack times, in addition to high build and clarity, excellent chemical and mar resistance and true non-yellowing performance.

Uses: POLARION FD Interior Clear high solids, water white formula was specifically designed for interior wood surfaces that are exposed to moisture, heat and household chemicals. It can be used for table tops, bar tops, cabinets, millwork, furniture, fixtures, and other wood surfaces.

Other Products: POLARION FD Interior Clear is designed to be catalyzed using the C35677 POLARION Catalyst. Do not use any other catalyst!

POLARION FD Interior Clear should be applied over POLARION FD Interior Clear Sealer. Consult the POLARION FD Interior Clear Sealer Product Information (PI) sheet for the proper catalyst and ratio.

If staining is desired, use M.L. Campbell WoodSong Stain and/or Microton Dye (NGR) Stain Base. Excess stain MUST be wiped off thoroughly. Allow stain to dry for 90 minutes, then wipe again before applying sealer. Stain must be sealed with POLARION FD Interior Clear Sealer before application of POLARION FD Interior Clear topcoat.

For clean up use PS3 Reducer or PS1 Fast Reducer. For retarder use PS5 Retarder. Do not use other solvents.

Physical Properties		
	Packaged	Blended A:B :: 5:1
Weight per Gallon	7.9 ± 0.2 lbs	7.9 ± 0.2 lbs
Viscosity - Ford #4 at 77°F/25°C	28 ± 3 seconds	28 ± 3 seconds
% Solids - by Weight	35.0 ± 2.0	42.0 ± 2.0
% Solids - by Volume	27.0 ± 2.0	34.0 ± 2.0
Theoretical Coverage at 1 Mil Dry <i>(Coverage figures DO NOT INCLUDE spray loss. Also allow for surface irregularities and porosity of wood surface to be finished.)</i>	N/A	545 ± 25 sq. ft. per gallon
Flash Point (PMCC)	99°F	80°F
Color	Clear	
Sheen (60° Glossmeter)	Flat 5±3 / Dull 15±3 / Satin 35±3 / Full Gloss 90+	
Packaged VOC	605 ± 10 g/l (5.06 lbs/gallon)	555 ± 10 g/l (4.62 lbs/gallon)
Photochemically Reactive	Yes	Yes

Surface Preparation	
New Work:	Remove any dirt, grease, glue or other construction contaminants and sand wood as required.
Old Work:	Strip old finishes completely and remove all contaminants from the surface. Make sure surface is dry, sand as required. Finish as new work. If cratering develops on work, Fish Eye Killer WR5 may remedy this problem (if the contaminant is not too severe).

Reduction
No reduction is required for spray application. However, given the wide variety of application equipment, tip sizes and atmospheric conditions, these finishes can be reduced with the PS series of solvent blends to achieve optimal flow and leveling. Please refer to the PS series usage chart for specific reducer recommendations. Consult your local VOC regulations before purchasing and applying these products.

Mixing

C3617x POLARION FD Interior Clear has been developed to crosslink with C35677 POLARION Catalyst. Mixing ratio by volume is 5:1 or 100 parts of C3617x POLARION FD Interior Clear to 20 parts of C35677 POLARION Catalyst. Always mix before using. No waiting/induction time after mixing is required. Reduce as indicated in previous section. Pot life is up to one (1) hour and will be affected by temperature and humidity (higher temperatures and humidity levels will decrease pot life times). Product viscosity will rise as pot life expires. Do not attempt to extend pot life.

Application Procedure

An excellent, very durable, exceptional build finish can be developed following a range of schedules listed below. Apply each coat at 3-4 wet mils. Note that C36179 POLARION FD Interior Clear Sealer should be used under the C3617x POLARION FD Interior Clear.

Apply 1st coat of C36179 POLARION FD Interior Clear Sealer over sanded wood substrate. Wait about an hour and then sand using no finer than 320 grit silicon carbide sandpaper. Repeat Sealer step as necessary.

Apply 1st coat of C3617x POLARION FD Interior Clear topcoat. Wait about an hour and then sand using no finer than 320 grit silicon carbide sandpaper. Apply 2nd coat of C3617x POLARION FD Interior Clear topcoat. If 3rd coat is desired, wait an hour and then sand using no finer than 320 grit silicon carbide sandpaper, then apply 3rd coat. Wet on tack applications are acceptable within 1 hours of initial application.

Do not exceed 6-8 dry mils.

Equipment Clean Up

- Use PS3 Reducer or PS1 Fast Reducer to clean up all equipment.
- Dispose of dirty solvent and cleaning rags in a safe and approved manner.

Drying Times (at 77° F or 25° C)

Dry to Touch:	20-40 Minutes
Sanding Dry:	45-60 Minutes
Stacking Dry:	3 Hours

Note: These times are directly affected by heat and humidity and caution must be taken to guarantee that the product is thoroughly cured before stacking.

Packaging/Shipping

Available Units	Gallons and Pails.
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Shelf Life and Storage

- Package life is (3) three 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		
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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) or Safety Data Sheet (SDS) 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.*

