



PRECATALYZED PIGMENTED LACQUERS

R.J. McGlennon Co. Inc.
198 Utah Street
San Francisco, CA 94103

Product Line Information Sheet

Phone (415) 552-0311
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87 SERIES LOW VOC PRECATALYZED PIGMENTED LACQUERS

Description The 87 series Low VOC Precatalyzed Pigmented Lacquers are a compliance lacquer system that offers improved toughness and durability over our standard 36 series lacquers. This compliance lacquer system has excellent build and fast dry time. We recommend you use this lacquer system over our U-277 Precatalyzed White Lacquer Undercoater. Using standard (non-precatalyzed) lacquer undercoaters may weaken the resistance and toughness of the finish coats. The 87 Series is recommended for use on all wood surfaces. See individual Product Data Sheets for specific data.

Available in the following standard sheens:

- U-277 Precatalyzed White Undercoater
- PLC-900 Precatalyzed Gloss White
- PLC-901 Precatalyzed Semi-Gloss White
- PLC-902 Precatalyzed Rubbed Effect White
- PLC-903 Precatalyzed Satin Flat White

Specifications Note: below represent typical values only - see specific Product Data Sheets for exact values.

Weight per Gallon: 8.3-8.6	Coating VOC: 550 G/L (4.58 Lb/gal)
Solids by Weight % 35 -39	Material VOC: 310 - 340 G/L (2.6 - 2.8 Lb/gal)
Solids by Volume %: 19 - 23	VOC Weight Ratio = 0.9 Lb VOC/Lb Solid (Avg.)
Coverage @ 1 mil = 320 - 350 SqFt./Gal.	
Viscosity: 25 - 30 Seconds Zahn 2 (for Topcoats)	



Surface Preparation Apply over properly sanded wood surfaces. Surfaces must be clean and free of dirt, grease and water. Remove any wax or old finish. No Maclac paint product has ever contained any lead. But if you are preparing previously painted surfaces with unknown paints please observe the following precautions. Warning! If you scrape, sand, or remove old paint, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NOISH-approved respirator to control lead exposure. Clean up carefully with a HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by contacting the National Lead Information Hotline at 1-800-424-LEAD or log on to www.epa.gov/lead.

Mixing & Thinning Thoroughly mix the material by stirring or shaking prior to application. 87 Series Low VOC Precatalyzed Pigmented Lacquers are all supplied at ready to spray viscosity. Normally, no further thinning is required. However, under certain application conditions (very hot or very cool and damp) the addition of T-314 Retarder (& blush preventive) will help alleviate blushing in cool conditions and will help flow and leveling in warm weather. Normally 3 - 5% retarder is enough.

LIMITED WARRANTY

The information contained herein is offered to assist customers in determining whether our products are suitable for their applications. We request that customers examine our products before use and satisfy themselves as to their suitability. We warrant that our products will meet our written specifications. Since application circumstances, substrate condition and product intermix are beyond our control, we cannot guarantee results under all possible situations. R.J. McGlennon Co. Inc. makes no representation as to the results the user will achieve.

Technical advice furnished by seller or any seller's agents shall not constitute a warranty. Any liability arising out of any condition resulting from the use of any R.J. McGlennon Co. Inc. product shall be limited to replacement of such product.



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NOTE: some California air quality district regulations allow additional thinning during adverse environmental conditions, while others do not - this varies by regulation and by the district - check with your local district first.

Otherwise, if any reduction of solids is desired or required for a particular application, then you may add some Acetone, as this will not change the VOC content. *Additional thinning with a non-exempt thinner will raise the VOC content.* (Note that Acetone increases blushing).

Application & Dry **87 Series Lacquers** are designed for spray application only. They may be applied with conventional, airless, air-assist airless or HVLP spray equipment. It is vital that the first coat of lacquer applied to the wood be applied so as to achieve thorough penetration of the lacquer into the wood. The first coat must penetrate the grain and the pores in order to achieve adhesion and moisture resistance.

After application as a sealer, allow to dry for 20 - 30 minutes prior to sanding.

We recommend total film thickness to be 2 - 5 ,mils DFT. Less than 2 mils does not afford sufficient protection, and more than 5 mils may be prone to cold check.

The Maclac Precatalyzed Lacquers meet the finish performance specifications required by the Kitchen Cabinet Manufacturers Association (KCMA) under American National Standards Institute ANSI A161.1-1990 Test Protocol. All testing is performed over properly applied finishes.

These lacquers have passed the following specified tests:

9.1 Shrinkage And Heat Resistance

PURPOSE: To test ability of the finish to withstand high heat for long periods, such as inside truck, box car or other transport or storage facility, or in service under normal kitchen conditions.

REQUIRED PERFORMANCE: By visual examination, the door finish shall show no appreciable discoloration and no evidence of Blistering, checks, or other film failure after exposure to 120 Deg F. at 70% RH for 24 hours.

RESULTS: (After 24 Hours test)

Initial Examination - Pass

14 Day Reexamination - Pass

9.2 Hot and Cold Check Resistance

PURPOSE: To test ability of the finish to with stand hot and cold cycles for prolonged periods.

REQUIRED PERFORMANCE: The finish shall show no appreciable discoloration and no evidence of Blistering, cold checking, or other film failure when subjected to temperatures variations of

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-5 Deg. F. to +120 Deg. F. for 5 complete cycles.

RESULTS: (After 10 cycles) **Pass: No Cracking or discoloration**

9.3 Chemical Resistance

PURPOSE: To test ability of finish to withstand substances typically found in the Kitchen and Bath.

REQUIRED PERFORMANCE: There shall be no appreciable discoloration, stain, or whitening that will not disperse with ordinary polishing.

<u>Chemical</u>	<u>Exposure Time</u>
Vinegar	25 Hrs.
Lemon Juice	24 Hrs.
Orange Juice	24 Hrs.
Grape Juice	24 Hrs.
Catsup	24 Hrs.
Coffee	24 Hrs.
Olive Oil	24 Hrs.
Alcohol	24 Hrs.
*Mustard	One Hour

RESULTS:

Initial Examination - Pass **10 Day Reexamination - Pass**
* Slight stain & fades

10.0 Detergent And Water Resistance

PURPOSE: To test the door edge for proper application of the finish.

REQUIRED PERFORMANCE: There shall be no Delamination or swelling. The finish shall show no appreciable Discoloration and no evidence of Blistering, checking, whitening or other film failure after the door edge is soaked for 24 hours in an ANSI specified solution of detergent and water.

RESULTS:

Initial Examination - Pass **10 Day Reexamination - Pass**

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Performance & Durability The 87 Series lacquers are best cleaned with mild household (waterborne) cleaning agents. We have not found any adverse effects as long as product cleaning directions are followed. A light application followed by drying with a soft cloth is recommended. Do not use any abrasive cleaning products on these lacquer surfaces. We have tested two commercially available cleaning products and have found them suitable. They are: 1) Murphy's Oil Soap—spray formula; and, 2) Formula 409 General Surface Cleaner. Test a small area first if in any doubt.

Environmental & Safe Handling Maximum Coating VOC content as supplied is 550 G/L (4.58 Lbs/Gal.) Note: Since air quality regulations are not consistent throughout the country, or even within the state of California, always check with your local air quality district prior to using these products. Warning: flammable mixture. Do not use near heat, sparks, flames, or any ignition sources. Do not cut empty containers. Use only with adequate ventilation. Dispose of any product only in accordance with all applicable regulations. See product material safety data sheet titled "87 MSD Low VOC Precatalyzed Pigmented Lacquers" for full details.

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