

# Maclac Product Line Information Sheet

R. J. MCGLENNON CO. INC.  
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## 84 SERIES LOW VOC HI-SOLIDS CHEMLAC CATALYZED LACQUERS

### Description

The 84 series Maclac Low VOC Hi-Solids Catalyzed Lacquers offer enhanced durability and performance over the pre-catalyzed lacquers. This water white Catalyzed Lacquer system has exceptional build and toughness when applied as recommended. It is recommended for use on all wood surfaces. This is the preferred lacquer for superior performance on hardwoods. It is designed to be used with other 84 Series only. Do not use any other sealers or topcoats with this system. The only sanding sealers we recommended for use with these lacquers are LVH-100 or LVH-109 Vinyl Sanding Sealer. LVH-109 contains UV blocker.

84 Series are offered in the following sheens:

LVH-102	Gloss	LVH-105	Gloss / U.V.
LVH-104	Semi-Gloss	LVH-106	Semi-Gloss / U.V.
LVH-101	Rubbed Effect	LVH-107	Rubbed Effect / U.V.
LVH-103	Satin Flat	LVH-108	Satin Flat / U.V.

### Specifications

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

Weight per Gallon: 7.3 - 7.4	Max. Coating VOC: 550 G/L (4.58 Lb/gal)
Solids by Weight % 24 - 28	Material VOC: 270 - 285 G/L (2.3 - 2.4 Lb/gal)
Solids by Volume %: 17 - 21	VOC Weight Ratio = 1.3 Lb VOC/Lb Solid (Avg.)
Coverage @ 1 mil = 260 - 310 SqFt./Gal.	
Viscosity: 22 - 28 Seconds Zahn 2	

### Surface Preparation

Apply over properly sanded wood surfaces. Ensure that any stains used are compatible with this system. 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](http://www.epa.gov/lead).

### Mixing & Thinning

**All products in this series must be catalyzed prior to application.**  
**Catalyze Topcoats at the rate of 4 fluid ounces of LVC-4 Catalyst per gallon of Lacquer.**  
**Catalyze Sealers LVH-100 and LVH-109 with 3 fluid ounces per gallon.**

Thoroughly mix the material by stirring or shaking prior to catalyzing and application. Average pot life after adding catalyst is 18 hours. After catalyzing, lacquer is at application viscosity. No additional thinning is required or recommended. However, if the applicator should find it necessary to thin the material, we recommend thinning with Acetone only, as this will not increase the VOC content. Check local air quality regulations before using any other thinner.

NOTE: The best application (appearance) will be achieved within the first 8 hours, and after about 8 hours the coating may increase in viscosity - therefore catalyze only the amount of material that you will use within this time frame.

Discard any older catalyzed material that has begun to climb in viscosity.

### Application & Dry

#### 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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This product is designed for spray application only. It may be applied with conventional, airless, air-assist airless or HVLP spray equipment. NOTE: because of the nature of the drying process, it is important that all steps of the coating operation be completed within 24 hours. (It is best to get all coats applied the same day).

We recommend total film thickness of 2 - 5 mils DFT.

NOTE: Since catalyzed coatings cure by a chemical reaction, it is sometimes possible to create conditions wherein the new coat may lift or wrinkle the previous coat - usually this happens with very thick coats and force drying.

**However, for the 84 series, extensive laboratory testing has not shown any re-coat restrictions, and accordingly we do not anticipate any under normal application conditions.** The following explanation and recommendations are offered to help the user understand the dry and cure process. These products dry by solvent evaporation and a chemical reaction that takes place within the drying coating.

The drying action starts at the surface of the applied coating and proceeds down through the film. Conversion Varnishes will successfully accept another coat when:

1. The previous coat is not yet cured and the next coat will still "melt" into the existing coat.
2. The previous coat has cured enough to resist the solvents in the next coat.

For the best results, R.J. McGlennon Company recommends that you apply subsequent coats just after the previous coat is dry to touch or dry enough to sand.

We recommend that if there is any doubt about recoat time that you test a small area:

1. Scuff sand the surface
2. Apply a full coat to a small area
3. Wait about 15 minutes and observe for any tendency to lift.

This assumes that each coat is applied to give 1 mil (one-thousandth of an inch) thickness coating after drying. Optimum film thickness is between 2 - 4 mils total dry film thickness. We do not recommend more than 4 - 5 mils dry film thickness on any substrate or wood surface.

**IMPORTANT: Always test a small area for recoat acceptance before recoating the entire part.**

## Performance & Durability

Forms a tough and durable finish coat with exceptional resistance to ultraviolet light degradation. This lacquer is designed as a water white quality lacquer. Note: whereas any nitrocellulose lacquer system will yellow with a time, R.J. McGlennon Co. recommends using this water white system over natural, light or white stains.

The Maclac 84 series meet the finish performance specifications required by the Kitchen Cabinet Manufacturers Association (KCMA) under American National Standards Institute ANSI A161.1-1990 Test Protocol.

These Conversion Varnishes have passed the following specified tests:

- Shrinkage And Heat Resistance
- Hot and Cold Check Resistance
- Chemical Resistance
- Detergent And Water Resistance

## Environmental & Safe Handling

Warning: flammable mixture. Do not use near heat, sparks, flames, or any ignition sources. Do not cut empty containers. Use only with adequate ventilation.

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.

Note: the dried film of this coating does not contain any EPA or OSHA defined hazardous materials. The only hazardous components are the volatile solvents (VOC), and once they have evaporated the dry finish is considered non-toxic. Dispose of any product only in accordance with all applicable regulations. See product material safety data sheets for more information.

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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.