

Maclac Product Line Information Sheet

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86 SERIES LOW VOC PIGMENTED CONVERSION VARNISH

Description

The 86 Series Maclac Low VOC Pigmented Conversion Varnish offer increased durability and performance over lacquers or enamels. The 86 series products are designed for wood surfaces only. These products will give outstanding performance even in commercial service. Not for use as a California architectural coating.

Note: each product in this series must be catalyzed with Maclac CC-2 (86 Series Conversion Varnish Catalyst) prior to application. The 86 Series Conversion Varnishes Colors are currently offered in the following White color and sheens:

CV-905 GLOSS WHITE	80 Sheen
CV-901 WHITE SEMI-GLOSS	55±5 Sheen
CV-904 WHITE SATIN FLAT	20±5 Sheen

See your technical representative for any other colors or sheens

Note: all gloss or sheen values are determined by spray application of a 2 mil dry film applied to a smooth surface and then measured @ 60 degree geometry. Application of thinner coats will give lower gloss values and application of thicker coats will give higher gloss values. Additionally, adding too much catalyst will tend to lower the gloss slightly.

Specifications

Note: Below represent typical values - as catalyzed and thinned. See specific Product Data Sheets for exact values

Weight per Gallon: 8.2 - 10.0 Coating VOC: 430 - 520 G/L (3.6-4.4 Lb/Gal)
Solids by Weight %: 50.0 - 65.0 Material VOC: 430 - 520 G/L (3.6-4.4 Lb/Gal.)
Solids by Volume %: 43.0 - 50.0 VOC Weight Ratio = 0.50 - 0.75 LbVOC/Lb Solids
Coverage @ 1mil = 710 - 800 SqFt./Gal. Viscosity: 20 - 25 Seconds Zahn 2

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.

All Maclac Pigmented Conversion Varnishes should be self-sealed. The use of any other product as a sanding sealer will severely limit the durability and the re-coat properties of these products.

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

All products in this series must be catalyzed prior to application.

Note: beginning Aug. 1, 2007 Catalyze at the rate of **4 fluid ounces** of Maclac CC-2 Pigmented Conversion Varnish Catalyst to each gallon of conversion varnish.

Thoroughly mix the material by stirring or shaking prior to catalyzing and application. Note: adding additional catalyst may lower the sheen. After adding the catalyst the material should be thinned approximately 10% for better penetration, flow and longer pot life. Thin with butyl acetate, xylene or a premium enamel thinner.

The pot life after catalyzing is about **6 - 8 hours (at temperatures between 65 Deg F. to 85 Deg F.)** NOTE: The best application (appearance) will be achieved within the first 2 hours, however the material may still be successfully applied for approximately 6 - 8 hours - therefore catalyze only the amount of material that you will use within this time frame. Pot life will be shorter at warmer temperatures. Remove all material from application equipment within the applicable time frame.

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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Application & Dry

The 86 Series Low VOC Conversion Varnishes are designed for spray application only. They may be applied with conventional, airless, air-assist airless or HVLP spray equipment.

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 86 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.

At normal temperatures (75 Deg.F) sanding and recoat is between 30 - 60 minutes. Colder or warmer conditions can increase or decrease the dry times.

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 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

The Maclac Conversion Varnishes 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

Maximum Coating VOC content of 86 series products when mixed and applied per recommendation is 460 G/L (3.83 Lbs/Gal.) Note, since air quality regulations are not consistent throughout the country, or within the state of California, always check local air quality regulations before using this product.

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.

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 "86MSD Maclac Pigmented Conversion Varnishes" for full details.

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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.