

Maclac Product line Information Sheet

R. J. MCGLENNON CO. INC.
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203 SERIES 275 CLEAR CONVERSION VARNISH

Description

The 203 Series 275 Conversion Varnishes offer increased durability and performance over lacquers. These products are recommended for use on all wood surfaces. These products will give outstanding performance even in commercial service - such as bar tops.

Note: each product in this series must be catalyzed with Maclac CCX-1 (203Series Conversion Varnish Catalyst) prior to application.

203 Series Conversion Varnishes are offered in the following sheens:

CVX-3000 Gloss	CVX-3010 Gloss / UV
CVX-3001 Semi-Gloss	CVX-3006 Semi-Gloss / UV
CVX-3002 Rubbed Effect	CVX-3007 Rubbed Effect / UV
CVX-3003 Satin Flat	CVX-3008 Satin Flat / UV
CVX-3004 Flat	CVX-3011 Flat / UV
CXS-3005 Sanding Sealer	CXS-3012 Sanding Sealer / UV

Note: With the exception of the full gloss product, all other gloss values are determined by spray application of a standard (1 mil dry film) coat 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.

Specifications

Note: Below represent typical values - as catalyzed, see specific Product Data Sheets for exact values

Weight per Gallon: 8.3 – 8.5	Coating VOC: 275 G/L (2.29 Lb/Gal)
Solids by Weight %: 36 - 39	Material VOC: 128 - 138 G/L (1.06 – 1.15 Lb/Gal.)
Solids by Volume %: 32 - 34	VOC Weight Ratio = 0.30 – 0.32 LbVOC/Lb Solids
Coverage @ 1mil = 520 - 530 SqFt./Gal.	Viscosity: 18 - 22 Seconds Zahn 2

Surface Preparation

Apply over properly sanded wood surfaces. Ensure that any stains used are compatible with this system. Maclac stains 15 and 19 Series are recommended. Glazing products are not recommended. Surfaces must be clean and free of dirt, grease and water. Remove any wax or old finish.

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 NIOSH-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.

Catalyze at the rate of 4 fluid ounces per gallon with Maclac CCX-1 275 Conversion Varnish Catalyst.

Thoroughly mix the material by stirring or shaking prior to catalyzing and application. After adding the catalyst, the material is ready for application, (thinning is normally not required). **The pot life after catalyzing is about 8 hours (at temperatures between 65 Deg F. to 85 Deg F.)** NOTE: The best application (appearance) will be achieved within the first 2-3 hours. 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 (usually 12 hours or older). All Maclac Conversion Varnishes are supplied at spray application viscosity. If the applicator wishes to thin the product then we recommend using a VOC exempt solvent such as Acetone or Oxsol (PCBTF) as these will not change the VOC. The use of any non-exempt thinner will increase the VOC.

Note: R.J. McGlennon Company does not recommend the addition of any outside additives. We have not tested the compatibility of many of these additives with our lacquers so we cannot state whether or not they will be of benefit.

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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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We have determined that you cannot use Smoothie I (1) in our 275 lacquers as it is incompatible. For improved flow and leveling we recommend you use our LVAD-1 flow enhancer.

Application & Dry

The 203 Series 275 Conversion Varnishes are designed for spray application only. They may be applied with conventional, airless, air-assist airless or HVLP spray equipment.

Extensive laboratory testing of the 203 Series has not shown any re-coat restrictions, and accordingly we do not anticipate any under normal application conditions. These products dry by solvent evaporation and a chemical reaction that takes place within the drying coating.

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

The Maclac 203 Series 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

The 203 Series Conversion Varnishes are best cleaned with mild household (waterborne) cleaning agents. We have not found any adverse effects as long as the manufacturer's 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.

Test a small area first if in there is any doubt.

Proper cleaning and maintenance of these finishes is required for good service life. It is imperative that the owners properly maintain the finish in order to achieve expected performance.

The most common problem associated with improper maintenance is water damage. This is due to excessive water exposure. If Water is allowed to remain on the surface for long enough time it may migrate under the finish and soak into the wood. Once the water soaks into the wood, the wood swells up and breaks the coating loose. Those areas where the lacquer coating has broken loose will look white or milky. The coating itself has not been directly damaged by water, but rather the coating has been broken loose due to the swelling action of the wood. It is the wood that has been damaged under the coating.

When Maclac finishes have been properly applied to wood, the wood surface becomes water resistant but NOT WATERPROOF.

This means the surface will withstand temporary water exposures, but not long term water soaking. Any drops, puddles or standing water must be removed immediately.

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.

Soak up spills with inert absorbent. Since hazardous waste regulations are not consistent throughout the country contact your local hazardous waste agency with information from the MSDS to get instructions for proper disposal. Section 2 of the MSDS contains components considered hazardous in the product as supplied. See the material safety data sheet 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.