

# MACLAC

## The Latest California Architectural Coatings Regulations - January 2003

### Background:

Some of the larger air quality management districts in the state of California, and air quality districts in other states, are issuing changes to their architectural coatings regulations. An architectural coating is generally defined as “A coating to be applied to stationary structures and their appurtenances at the site of installation, to portable buildings at the site of installation, to pavements or to curbs.”

This includes finishes applied to all cabinets and fixtures attached to the structure.

This does not include in-shop application of finishes to cabinets or fixtures.

Currently, shops that are applying lacquers to wood are using our Low VOC clear and color lacquers with great success. These low VOC compliance lacquers have an excellent track record of high performance with exceptional durability.

### What Changes Will These Regulations Bring About?

Generally, the VOC content of most architectural coatings will be substantially reduced.

The architectural coatings that Maclac offers are lacquers and stains for wood surfaces. We manufacture a complete line of both clear and color lacquers for wood.

Up until these changes, the VOC limit for architectural lacquers for wood has been 680 G/L (grams per liter) or 5.67 pounds per gallon.

The new limits for architectural lacquers for wood will be 550 G/L (grams per liter) or 4.58 pounds per gallon.

The VOC limit for architectural (high solids) stains has been 350 G/L (grams per liter) or 2.92 pounds per gallon.

The new limits for architectural (high solids) stains will be 250 G/L (grams per liter) or 2.08 pounds per gallon.

Note: The above VOC data refers to the Coating VOC (which is sometimes called “regulatory VOC”)

Maclac is now offering compliance versions of all our existing architectural lacquer products. Maclac will be supplying all our relevant coatings at the proper VOC to comply with the most stringent regulation.

The cross reference below will list the products we offer that comply with California architectural coatings regulations.

The viscosity and solids relationship is adjusted for spray application as supplied. All of the reformulated lacquers are now higher solids at application viscosity than the previous versions.

In the case of some lacquers, this means that the "as supplied" viscosity will decrease. This is absolutely essential so as to ensure compliance with these regulations.

We have elected to discontinue "high viscosity" architectural coatings, inasmuch as the required amount of thinning for spray would result in a violation of the regulation.

Generally speaking, the viscosity we will be supplying most lacquers at will 20 - 25 seconds in a Zahn #2 viscosity cup - (using the ASTM certified Zahn cups).

These formulation changes have resulted in products that meet or exceed the performance of our current formulations at higher application solids. These Low VOC lacquers give high build with enhanced performance.

We have worked with spray equipment manufacturers to ensure excellent application properties. In some cases, a slight adjustment of the equipment is necessary, but all the standard spray methods still work very well.

We hope this information answers any questions you may have regarding these necessary changes.

We thank you in advance for your continued support.

Enclosed is a cross-reference product sheet, which lists the old 680 lacquer and the corresponding match to the 550 lacquer.

## CROSS REFERENCE LIST

### SHEENS

Gloss	80+
Semi Gloss	55 $\supseteq$
Rubbed Effect	35 $\supseteq$
Satin Flat	20 $\supseteq$
Dead Flat	0 - 10 $\supseteq$
( + or - 5 $\supseteq$ on sheens at 1 mil)	

### 680 VOC

#### 30 Series – Standard Lacquer

F- 12 Semi-Gloss  
F- 16 Satin Flat  
G- 26 Gloss

### 550 VOC

#### 33 Series – Standard Lacquer

F-230 Semi-Gloss  
F-231 Satin Flat  
G-156 Gloss

S- 67 Sanding Sealer  
S- 66 Easy Sanding Sealer  
S- 69 Floor Sealer

S-140 Sanding Sealer  
S-157 Easy Sanding Sealer  
S-158 Floor Sealer

**31 Series – Mar Resistant Lacquer**

F- 14 Semi-Gloss  
F-175 Satin Flat  
F-211 Rubbed Effect  
G- 24 Gloss Furniture  
S-122 Sanding Sealer  
F-173 (Discontinued)  
G-118 (Discontinued – now G- 24)

**28 Series – Mar Resistant Lacquer**

F-311 Semi-Gloss  
F-313 Satin Flat  
F-312 Rubbed Effect  
G-173 Gloss Furniture  
S-159 Sanding Sealer  
F-311 Semi-Gloss  
G-173 Gloss Furniture

**680 VOC**

**32 Series – Water White Lacquer**

F- 10 Dead Flat  
F- 11 Rubbed Effect  
F-194 Semi-Gloss  
G- 22 Gloss  
S- 65 Sanding Sealer  
F-248 Rubbed Effect UV  
F-258 Semi-Gloss UV  
F-259 Dead Flat UV  
G-167 Gloss UV  
S-143 Sanding Sealer UV  
G- 21 (Discontinued)

**550 VOC**

**29 Series – Water White Lacquer**

F-275 Dead Flat  
F-233 Rubbed Effect  
F-232 Semi-Gloss  
G-157 Gloss  
S-141 Sanding Sealer  
F-249 Rubbed Effect UV  
F-236 Semi-Gloss UV  
F-310 Dead Flat UV  
G-165 Gloss UV  
S-142 Sanding Sealer UV

**37 Series – Pre-Catalyzed Lacquer**

F-171 Semi-Gloss  
F-172 Satin Flat  
F-176 Rubbed Effect S/F  
G-127 Gloss  
F-260 Semi-Gloss UV  
F-261 Satin Flat UV  
F-262 Rubbed Effect S/F UV  
G-166 Gloss UV

**80 Series – Pre-Catalyzed Lacquer**

F-252 Semi-Gloss  
F-253 Satin Flat  
F-238 Rubbed Effect S/F  
G-158 Gloss  
F-254 Semi-Gloss UV  
F-255 Satin Flat UV  
F-237 Rubbed Effect S/F UV  
G-160 Gloss UV  
F-308 Dead Flat

**26 Series – Lacquer Undercoat**

U- 10 White Lacquer Undercoat  
U-176 White Lacquer Undercoat  
U- 11 White Lacquer Undercoat Hi-Hide

**27 Series – Lacquer Undercoat**

U-262 White Lacquer Undercoat  
U-262 White Lacquer Undercoat  
U-257 White Lacquer Undercoat Hi-Hide  
U-272 (For Airless Applications)

U-231 Black Lacquer Undercoat  
U- 44 White Primer Surfacer  
U- 48 Gray Primer Surfacer

U-271 Black Lacquer Undercoat  
U-273 White Primer Surfacer  
U-274 Gray Primer Surfacer

**35 Series – Lacquer Colors**

A- 10 Flat White  
A- 11 Satin White  
A- 39 Semi-Gloss White  
B- 10 Gloss White  
B- 11 Gloss White Hi Hide  
B- 98 Premium White  
J- 26 Gloss Black  
K- 22 Flat Black  
K- 23 Semi-Gloss Black

**36 Series - Lacquer Colors**

A-656 Flat White  
A-652 Satin Flat White  
A-653 Semi-Gloss White  
B-302 Gloss White  
B-303 Gloss White Hi Hide  
B-904 Premium White  
K-803 Gloss Black  
K-802 Flat Black  
K-800 Semi-Gloss Black  
K-801 Satin Flat Black

**680 VOC**

**39 Series – Chemlac**

S-111 Sealer  
S-144 Sealer UV  
F-104 Rubbed Effect  
F-257 Rubbed Effect UV

**550 VOC**

**81 Series - Chemlac**

S-154 Sealer  
S-155 Sealer UV  
F-315 Rubbed Effect  
F-299 Rubbed Effect UV  
F-301 Satin  
F-314 Satin UV  
F-305 Semi-Gloss UV  
F-316 Semi-Gloss

**For Compliant stains see 19 Series EL VOC Stains**

For any other products or any questions regarding architectural coatings please see the product data sheet and refer to the applicable regulations for your area.

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