

## Tips to help in application of Maclac Low VOC compliance Lacquers

The Maclac 550 G/L (grams per liter) compliance lacquers for architectural coatings are supplied at spray viscosity.

The older high VOC lacquers required thinning for application, while the new ones do not.

A primary reason we manufacture these new lacquers at spray viscosity and conforming VOC levels is to make it easier for the user to achieve straightforward compliance with air quality regulations.

The new compliance lacquers are higher solids at application viscosity than are the older lacquers.

On an average the new lacquers contain 25 to 30% more solids “at the gun”

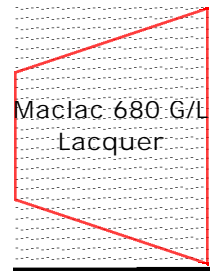
This means that one coat of the new lacquer is equal to about one and one-quarter coats of the old lacquer. (The film will “build” about 25% faster).

The diagrams below give a pictorial representation of the relative solids in the spray fan

To the right:

This “spray fan” represents the lacquer solids in the older high VOC lacquers at the gun.

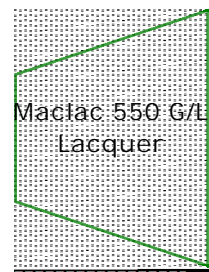
Maclac 680 G/L Lacquers



To the right:

This “spray fan” represents the lacquer solids in the new low VOC lacquers at the gun.

Maclac 550 G/L Lacquers



Since these lacquers contain both higher solids and higher levels of faster evaporating solvents, some slight adjustments in the spray gun and spray technique may be necessary.

Usually a small increase in atomization is necessary to help atomize the higher solids material.

For airless type spray this may mean increasing the fluid pressure or using a fine finish tip.

For HVLP type spray - better atomization may be achieved by increasing the atomizing air pressure, or with different air caps and tip combinations.

The newer lacquers contain less lacquer thinner, so they tend to have a faster initial flash off. Make sure your spray technique is such that you are able to hold a good “wet edge” while you spray.

For further information on low VOC systems see “Maclac Lacquers For Wood - Then And Now”