

### Maximum Allowable VOC Content

Coating Type	Limit	
	lbs/gal	g/L
Automotive pretreatment	6.5	780
Automotive primer-surfacer	4.8	580
Automotive primer-sealer	4.6	550
Automotive topcoat:		
single stage topcoat	5.0	600
2-stage basecoat/clearcoat	5.0	600
3- or 4-stage basecoat/clearcoat	5.2	630
Automotive multicolored topcoat	5.7	680
Automotive specialty	7.0	840

### Calculating VOC Content

Single Layer Coat:

$$\text{VOC} = \frac{(W_v + W_a - W_w - W_n)}{(V + V_a - V_w - V_n)}$$

Multi Layer Coat (basecoat, midcoat[s], topcoat):

$$\text{VOC}_{\text{multi}} = \frac{\text{VOC}_{\text{bc}} + \sum_{i=0}^M \text{VOC}_{\text{mci}} + 2(\text{VOC}_{\text{cc}})}{M + 3}$$

#### Explanation of variables & units of measure

**VOC** = the VOC content of the given surface coating: pounds per gallon (lbs/gal) or grams per liter (g/l)

**W<sub>v</sub>** = mass of total volatiles: pounds or grams

**W<sub>a</sub>** = mass of total VOC in additives, or other items that are added to the surface coating material before it is applied: pounds or grams

**W<sub>w</sub>** = mass of water in (if any): pounds or grams

**W<sub>n</sub>** = mass of any non-VOC solvent: pounds or grams

**V** = total volume of surface coating material: gallons or liters

**V<sub>a</sub>** = volume of VOC containing additives or other materials that are added to the surface coating material before it is applied: gallons or liters

**V<sub>w</sub>** = volume of water (if any): gallons or liters

**V<sub>n</sub>** = volume of any non-VOC solvent: gallons or liters

**VOC<sub>multi</sub>** = VOC content of multi layer coat: pounds per gallon (lbs/gal) or grams per liter (g/l)

**VOC<sub>bc</sub>** = VOC content of basecoat: lbs/gal or g/l

**VOC<sub>mci</sub>** = VOC content of a given midcoat: lbs/gal or g/l

**VOC<sub>cc</sub>** = VOC content of the clearcoat: lbs/gal or g/l

**i** = a given midcoat

**M** = total number of midcoats

### Exemptions from Cleaning, Housekeeping and Training Requirements

- ♦ Applying a surface coating with an airbrush for the purpose of identification (i.e. stenciling, lettering etc.)
- ♦ Applying a surface coating that is sold in non-refillable aerosol containers

### Contact Information and Additional Resources

#### Small Business Environmental Assistance Program:

TEL: (609) 292-3600 or Toll Free: (877) 753 1151  
 FAX: (609) 777-1330  
[www.nj.gov/dep](http://www.nj.gov/dep)

#### Air Regulations

NJDEP - Air Quality Permitting Program  
 (609) 292-6716  
[www.nj.gov/dep/aqpp](http://www.nj.gov/dep/aqpp)

#### Hazardous Waste

EPA RCRA ID# (212) 637-4106  
 NJDEP NJX ID# (609) 292-7081

#### Compliance Assistance Program

NJDEP - GreenStart  
 (609) 633-0727

#### Alliance of Auto Service Providers of NJ

(732) 922-8909  
[www.aaspnj.org](http://www.aaspnj.org)

#### Automotive Compliance Information

(888) GRN-LINK  
[www.ccar-greenlink.org](http://www.ccar-greenlink.org)

#### Transportation Compliance Assistance Center

(888) 459-0656  
[www.transource.org](http://www.transource.org)

#### Paints and Coatings Center

(908)-755-7753  
[www.paintcenter.org](http://www.paintcenter.org)

#### Peaks to Prairies Pollution Prevention Info

(406) 994-3451  
[www.peakstoprairies.org/p2bande/autobody](http://www.peakstoprairies.org/p2bande/autobody)

#### Iowa Waste Reduction Center

(800)-422-3109  
[www.iwrc.org](http://www.iwrc.org)

This document does not replace or supercede N.J.A.C. 7:27-16.12, it has been developed to provide guidance on air regulations that affect auto body shops in NJ. For a copy of the current rules please visit: [www.state.nj.us/dep/aqm/rules.htm](http://www.state.nj.us/dep/aqm/rules.htm)

