**Section 218.780 Emission Limitations**

a) Except as provided in Section 218.782 of this Subpart, no owner or operator of a motor vehicle refinishing operation shall coat motor vehicles, mobile equipment, or their parts and components, unless all coatings, except touch-up coatings, never exceed the VOM content limitations in this Section, expressed as units of VOM per volume of coating applied at each coating applicator, minus water and any compounds that are specifically exempted from the definition of VOM. The VOM content limitations are as follows:

|  |  |  |  |
| --- | --- | --- | --- |
|  |  | kg/l | (lb/gal) |
|  |  |  |  |
| 1) | Pretreatment wash primer | 0.78 | (6.5) |
|  |  |  |  |
| 2) | Precoat | 0.66 | (5.5) |
|  |  |  |  |
| 3) | Primer/primer surfacer coating | 0.58 | (4.8) |
|  |  |  |  |
| 4) | Primer sealer | 0.55 | (4.6) |
|  |  |  |  |
| 5) | Topcoat system or basecoat/clearcoat | 0.60 | (5.0) |
|  |  |  |  |
| 6) | Three or four stage topcoat system | 0.63 | (5.2) |
|  |  |  |  |
| 7) | Specialty coatings | 0.84 | (7.0) |
|  |  |  |  |
| 8) | Anti-glare/safety coating  | 0.84 | (7.0) |

b) All coating shall be used according to manufacturer's specifications. If a coating requires the addition of a reducer, hardener, or other additive, in some combination, this addition must not cause the coating, as applied, to exceed the applicable VOM content limitation.

c) Specialty coatings shall represent no more than 5 percent, by volume, of all coatings applied at a source on a monthly basis.

d) The following equations shall be used to calculate the VOM content of topcoat systems:

1) The VOM content of basecoat/clearcoat systems shall be calculated in units of kg VOM/l (lbs VOM/gal) of coating, (minus water and any compounds which are specifically exempted from the definition of VOM), according to the following equation:



Where:

|  |  |  |
| --- | --- | --- |
| VOM Tbc/cc  | = | The weighted average of the VOM content, as applied, in units of kg VOM/l (lbs VOM/gal) of coating, (minus water and any compounds which are specifically exempted from the definition of VOM), in the basecoat (bc) and clearcoat (cc) system; |
| VOMbc | = | The VOM content, as applied, in units of kg VOM/l (lbs VOM/gal) of coating (minus water and any compounds which are specifically exempted from the definition of VOM), of any given basecoat; and  |
| VOMcc | = | The VOM content, as applied, in units of kg VOM/l (lbs VOM/gal) of coating, (minus water and any compounds which are specifically exempted from the definition of VOM), of any given clearcoat. |

2) The VOM content for a three stage coating system shall be calculated in units of kg VOM/l (lbs VOM/gal) of coating, (minus water and any compounds which are specifically exempted from the definition of VOM), according to the following formula:



Where:

|  |  |  |
| --- | --- | --- |
| VOM Tms | = | The weighted average of the VOM content, as applied, in units of kg VOM/l (lbs VOM/gal) of coating, (minus water and any compounds which are specifically exempted from the definition of VOM), in the basecoat, midcoat and clearcoat system; |
| VOMbc | = | The VOM content, as applied, in units of kg VOM/l (lbs VOM/gal) of coating, (minus water and any compounds which are specifically exempted from the definition of VOM), of any given basecoat;  |
| VOMmc | = | The VOM content, as applied, in units of kg VOM/l (lbs VOM/gal) of coating, (minus water and any compounds which are specifically exempted from the definition of VOM), of any given midcoat; and  |
| VOMcc | = | The VOM content, as applied, in units of kg VOM/l (lbs VOM/gal) of coating, (minus water and any compounds which are specifically exempted from the definition of VOM), of any given clearcoat. |

3) The VOM content for a four stage coating system shall be calculated in units of kg VOM/l (lbs VOM/gal) of coating, (minus water and any compounds which are specifically exempted from the definition of VOM), according to the following formula:



Where:

|  |  |  |
| --- | --- | --- |
| VOM Tms | = | The weighted average of the VOM content, as applied, in units of kg VOM/l (lbs VOM/gal) of coating, (minus water and any compounds which are specifically exempted from the definition of VOM), in the basecoat, midcoats and clearcoat system; |
| VOMbc | = | The VOM content, as applied, in units of kg VOM/l (lbs VOM/gal) of coating, (minus water and any compounds which are specifically exempted from the definition of VOM), of any given basecoat;  |
| VOMmc1 | = | The VOM content, as applied, in units of kg VOM/l (lbs VOM/gal) of coating, (minus water and any compounds which are specifically exempted from the definition of VOM), of the first midcoat;  |
| VOMmc2 | = | The VOM content, as applied, in units of kg VOM/l (lbs VOM/gal) of coating, (minus water and any compounds which are specifically exempted from the definition of VOM), of the second midcoat; and |
| VOMcc | = | The VOM content, as applied, in units of kg VOM/l (lbs VOM/gal) of coating, (minus water and any compounds which are specifically exempted from the definition of VOM), of any given clearcoat. |

(Source: Added at 19 Ill. Reg. 6848, effective May 9, 1995)