

**Commercial motor vehicle and mobile equipment refinishing operations.**

[Comment: For dates and availability of non-regulatory government publications, publications of recognized organizations and associations, federal rules, and federal statutory provisions referenced in this rule, see paragraph (HH) of rule 3745-21-01 of the Administrative Code titled "Referenced materials."]

**(A) Applicability.**

- (1) All commercial motor vehicle and mobile equipment refinishing operations (sources), regardless of date of construction or modification, that are located in Butler, Clark, Clermont, Greene, Hamilton, Miami, Montgomery, or Warren county shall comply with:
  - (a) The requirements of paragraphs (C)(1) and (C)(2) of this rule beginning May 1, 2009; and
  - (b) The requirements of paragraphs (C)(3) to (C)(6) of this rule beginning April 11, 2006.
- (2) All commercial motor vehicle and mobile equipment refinishing operations (sources), regardless of date of construction or modification, that are located in Ashtabula, Cuyahoga, Geauga, Lake, Lorain, Medina, Portage, or Summit county shall achieve compliance with the requirements of this rule by no later than one year after the effective date of this rule.

**(B) Definitions.**

The definitions applicable to this rule are contained in paragraph (D) of rule 3745-21-01 of the Administrative Code.

**(C) Operating requirements.**

Except where exempt under paragraph (D) of this rule a person at a facility subject to the requirements of this rule shall:

- (1) Not apply to mobile equipment or mobile equipment components any automotive pretreatment, automotive primer-surfacer, automotive primer-sealer, automotive topcoat, or automotive specialty coatings, including any VOC-containing materials added to the original coating supplied by the manufacturer, that contain VOCs in excess of the limits specified in the table of this rule:

-Table: Allowable content of VOCs in mobile equipment repair and refinishing coatings, as applied (in weight of VOC per volume of coating, excluding water and non-VOC or exempt solvents)-

Coating Type	Limit (pounds VOC per gallon of coating, excluding water and exempt solvents)	Limit (grams VOC per liter of coating, excluding water and exempt solvents)
pretreatment primer	6.5	780
primer-surfacer	4.8	575
primer-sealer	4.6	550
topcoat(single-stage)	5.0	600
topcoat (two-stage basecoat/clearcoat)	5.0	600
topcoat (three or four-stage basecoat/clearcoat)	5.2	625
multi-colored topcoat	5.7	680
automotive specialty	7.0	840

(2) Calculate the VOC content of the coatings employed in accordance with the following:

- (a) Except for multi-stage topcoats, the mass of VOC per combined volume of VOC and coating solids, excluding water and exempt solvents, shall be calculated by the following equation:

$$VOC = \frac{(Wv - Ww - Wec)}{(V - Vw - Vec)}$$

where:

VOC = VOC content in pounds per gallon of coating, excluding water and exempt solvents;

Wv = mass of total volatiles, in pounds;

Ww = mass of water, in pounds;

Wec = mass of exempt solvents, in pounds;

V = volume of coating, in gallons;

Vw = volume of water, in gallons; and

Vec = volume of exempt solvents, in gallons.

- (b) The VOC content of a multi-stage topcoat shall be calculated by the following equation:

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

where:

$VOC_{multi}$  = VOC content of multistage topcoat, in pounds per gallon, excluding water and exempt solvents;

$VOC_{bc}$  = VOC content of basecoat, in pounds per gallon, excluding water and exempt solvents;

$VOC_{mci}$  = VOC content of each midcoat(s), in pounds per gallon, excluding water and exempt solvents;

$VOC_{cc}$  = VOC content of the clear coat, in pounds per gallon, excluding water and exempt solvents; and

M = number of midcoats.

(The VOC content of each coating shall be measured in accordance with USEPA method 24.)

- (3) Use one or more of the following application techniques, in accordance with manufacturer's specifications, to apply any coating containing a VOC as a pretreatment, primer, sealant, basecoat, clear coat, or topcoat to mobile equipment for commercial purposes:
- (a) Flow or curtain coating;
  - (b) Dip coating;
  - (c) Roller coating;
  - (d) Brush coating;
  - (e) Cotton-tipped swab application;
  - (f) Electro-deposition coating;
  - (g) HVLP spraying;
  - (h) Electrostatic spray;

- (i) Airless spray;
  - (j) Air-assisted airless spray; and
  - (k) Any other coating application method that the owner or operator of the facility demonstrates and Ohio environmental protection agency determines achieves emission reductions equivalent to HVLP or electrostatic spray application methods. This demonstration shall be submitted for approval to the director of Ohio environmental protection agency. Any equivalent coating application method approved by the director shall be submitted to the USEPA as a revision to the Ohio state implementation plan for ozone.
- (4) Be properly trained in the use of an HVLP sprayer, or equivalent application, in accordance with manufacturer's specifications, and in the handling of a coating and any solvents used to clean the sprayer.
- (5) Ensure that the spray guns used to apply mobile equipment repair and refinishing coatings shall be cleaned by one of the following:
- (a) An enclosed spray gun cleaning system that is kept closed when not in use;
  - (b) Un-atomized discharge of solvent into a paint waste container that is kept closed when not in use;
  - (c) Disassembly of the spray gun and cleaning in a vat that is kept closed when not in use; and
  - (d) Atomized spray into a paint waste container that is fitted with a device designed to capture atomized solvent emissions.
- (6) Store the following materials in nonabsorbent, non-leaking containers and keep these containers closed at all times when not in use:
- (a) Fresh coatings;
  - (b) Used coatings;
  - (c) Solvents;
  - (d) VOC-containing additives and materials;
  - (e) VOC-containing waste materials; and
  - (f) Cloth, paper, or absorbent applicators moistened with any of the items listed in this subsection.

(D) Exemptions.

The following coating applications shall be exempt from the requirements of this rule:

- (1) The application of a coating for graphic designs, stenciling, lettering or other identification marking through the use of an air brush method;
- (2) The application of a coating sold in a non-refillable aerosol container; and
- (3) The application of a coating to mobile equipment solely for repair of small areas of surface damage or minor imperfections.

(E) Record keeping and reporting requirements.

- (1) Each owner or operator subject to the provisions of this rule shall submit documentation sufficient to demonstrate that high efficiency transfer application techniques of coatings required in this rule are in use at their facility. The documentation also shall verify that all employees applying coatings are properly trained in the use of an HVLP sprayer, or equivalent application, and in the handling of a coating and any solvents used to clean the sprayer. This documentation shall be submitted to the appropriate Ohio environmental protection agency district office or local air agency. In addition, the owner or operator shall retain the documentation on site and make the documentation available to the appropriate Ohio environmental protection agency district office or local air agency upon request. The documentation shall be submitted by:
  - (a) June 10, 2006 for sources covered under paragraph (A)(1)(b) of this rule;
  - (b) June 10, 2009 for sources covered under paragraph (A)(1)(a) of this rule; or
  - (c) No later than one year after the effective date of this rule for sources covered under paragraph (A)(2) of this rule.
- (2) Each owner or operator subject to the provisions of this rule shall maintain records for a period of five years of the amount and VOC content of each coating employed and report to the director all emissions in excess of the limits specified in the table of this rule within forty-five days after each exceedance is discovered.

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