

**REGULATION 8  
ORGANIC COMPOUNDS  
RULE 45  
MOTOR VEHICLE AND MOBILE EQUIPMENT COATING OPERATIONS**

**INDEX**

**8-45-100 GENERAL**

- 8-45-101 Description
- 8-45-110 Exemption, Original Equipment Manufacturer
- 8-45-111 Exemption, Touch-up
- 8-45-112 Limited Exemption, Graphic Design Applications
- 8-45-113 Exemption, Military Vehicles and Ground Support Equipment
- 8-45-114 Exemption, Radiators and Engine Components
- 8-45-115 Exemption, Aerosol Coating Products
- 8-45-116 Limited Exemption, Transfer Efficiency
- 8-45-117 Limited Exemption, Early Compliance

**8-45-200 DEFINITIONS**

- 8-45-201 Adhesion Promoter
- 8-45-202 Aerosol Coating Products
- 8-45-203 Antiglare/Safety Coating
- 8-45-204 Camouflage Coating
- 8-45-205 Catalyst
- 8-45-206 Clear Coating
- 8-45-207 Color Coating
- 8-45-208 Color Match
- 8-45-209 Electrostatic Application
- 8-45-210 Final Stage Manufacture
- 8-45-211 Graphic Design Application
- 8-45-212 Ground Support
- 8-45-213 Group I Vehicles
- 8-45-214 Group II Vehicles and Equipment
- 8-45-215 High-Volume, Low-Pressure (HVLV) Spray
- 8-45-216 Key System Operating Parameter
- 8-45-217 Large/Heavy Duty Trucks
- 8-45-218 Light- and Medium-Duty Trucks and Vans
- 8-45-219 Metallic/Iridescent Topcoat
- 8-45-220 Mobile Equipment
- 8-45-221 Mobile Refinishing Operation
- 8-45-222 Mobile Refinishing Operator
- 8-45-223 Motor Vehicle
- 8-45-224 Multi-Color Coating
- 8-45-225 Multi Stage Topcoat System
- 8-45-226 Overall Efficiency
- 8-45-227 Precoat
- 8-45-228 Pretreatment Coating
- 8-45-229 Primer
- 8-45-230 Primer Sealer
- 8-45-231 Primer Surfacer
- 8-45-232 Reducer
- 8-45-233 Refinishing
- 8-45-234 Single-Stage Coating
- 8-45-235 Specialty Coatings

- 8-45-236 Spot Repair
- 8-45-237 Temporary Protective Coating
- 8-45-238 Topcoat
- 8-45-239 Touch-up Coating
- 8-45-240 Transfer Efficiency
- 8-45-241 Truck Bed Liner Coating
- 8-45-242 Underbody Coating
- 8-45-243 Uniform Finish Coating
- 8-45-244 Utility Body
- 8-45-245 Volatile Organic Compound

**8-45-300 STANDARDS**

- 8-45-301 Coating Limits
- 8-45-302 Deleted October 6, 1993
- 8-45-303 Transfer Efficiency
- 8-45-304 Prohibition of Specification
- 8-45-305 Prohibition of Sale or Manufacture
- 8-45-306 Moved to Section 8-45-406
- 8-45-307 Deleted November 2, 1994
- 8-45-308 Surface Preparation and Solvent Loss Minimization
- 8-45-309 Deleted October 6, 1993
- 8-45-310 Deleted October 6, 1993
- 8-45-311 Small Production/Utility Bodies
- 8-45-312 Specialty Coatings
- 8-45-313 Deleted December 3, 2008
- 8-45-314 Precoat Limitation
- 8-45-315 HVLP Marking
- 8-45-316 Filtration
- 8-45-317 Most Restrictive VOC Limit
- 8-45-318 Prohibition of Possession
- 8-45-319 National Emission Standards for Hazardous Air Pollutants (NESHAP): Paint Stripping and Miscellaneous Surface Coating Operations at Area Sources

**8-45-400 ADMINISTRATIVE REQUIREMENTS**

- 8-45-401 Deleted November 2, 1994
- 8-45-402 Reporting Requirements for Mobile Refinishing Operators
- 8-45-403 Registration for Mobile Refinishing Operations
- 8-45-404 VOC Labeling Requirements
- 8-45-405 Compliance Statement Requirements

**8-45-500 MONITORING AND RECORDS**

- 8-45-501 Records
- 8-45-502 Air Pollution Abatement Equipment, Recordkeeping Requirements
- 8-45-503 Precoat Limitation Records
- 8-45-504 Sales Records
- 8-45-505 Recordkeeping Requirements for Clients of Mobile Refinishing Operators

**8-45-600 MANUAL OF PROCEDURES**

- 8-45-601 Analysis of Samples
- 8-45-602 Determination of Emissions
- 8-45-603 Deleted October 6, 1993
- 8-45-604 Determination of Acid Content
- 8-45-605 Determination of Metallic Content
- 8-45-606 Determination of Methyl Acetate, Acetone, t-Butyl Acetate, and PCBTF Contents



**REGULATION 8  
ORGANIC COMPOUNDS  
RULE 45  
MOTOR VEHICLE AND MOBILE EQUIPMENT COATING OPERATIONS**

(Adopted June 7, 1989)

**8-45-100 GENERAL**

**8-45-101 Description:** The purpose of this Rule is to limit the emission of volatile organic compounds from the finishing or refinishing of motor vehicles, mobile equipment and their parts and components.

**8-45-110 Exemption, Original Equipment Manufacturer:** The provisions of this Rule shall not apply to Original Equipment Manufacturer (OEM) coatings applied at manufacturing or assembly plants that are subject to Regulation 8, Rule 13.

*(Amended December 3, 2008)*

**8-45-111 Exemption, Touch-up:** The provisions of this Rule shall not apply to touch-up operations.

**8-45-112 Limited Exemption, Graphic Design Applications:** The provisions of Section 8-45-303 shall not apply to graphic design applications.

*(Amended December 3, 2008)*

**8-45-113 Exemption, Military Vehicles and Ground Support Equipment:** The provisions of this Rule shall not apply to the coating of military vehicles and ground support equipment that is subject to the provisions of Regulation 8, Rule 19. Military vehicles include tanks and armored personnel carriers but do not include passenger vehicles.

*(Amended 11/2/94; 12/3/08)*

**8-45-114 Exemption, Radiators and Engine Components:** The provisions of this Rule shall not apply to the coating of radiators and engine components that is subject to the provisions of Regulation 8, Rule 19.

*(Amended 11/2/94; 12/3/08)*

**8-45-115 Exemption, Aerosol Coating Products:** The provisions of this Rule shall not apply to the application of aerosol coating products. Aerosol coating products are subject to the provisions of the 17CCR, commencing at §94520.

*(Adopted June 20, 1990; Amended December 3, 2008)*

**8-45-116 Limited Exemption, Transfer Efficiency:** The provisions of Section 8-45-303 shall not apply to the application of:

116.1 High viscosity or thixotropic coatings with application equipment that is supplied with and is an integral part of the coating container,

116.2 Corrosion protective coatings to enclosed interior spaces, or

116.3 Underbody coatings and truck bed liner coatings.

*(Adopted 11/2/94; Amended 12/3/08)*

**8-45-117 Limited Exemption, Early Compliance:** Until October 1, 2009, any person who complies with the VOC limits in Section 8-45-301.3 shall not be subject to Sections 8-45-301.1, 301.2, 311, 312, or 314.

*(Adopted December 3, 2008)*

**8-45-200 DEFINITIONS**

**8-45-201 Adhesion Promoter:** A coating that is labeled and formulated to be applied to uncoated plastic surfaces to facilitate bonding of a subsequent coating, and upon which a subsequent coating is applied.

*(Adopted December 3, 2008)*

**8-45-202 Aerosol Coating Product:** A mixture of resins, pigments, liquid solvents and gaseous propellants, packaged in a disposable can for hand-held application.

*(Adopted 6/20/90; Amended, Renumbered 12/3/08)*

**8-45-203 Anitglare/Safety Coating:** A coating that minimizes light reflection for safety purposes.

*(Amended 11/2/94; Amended, Renumbered 12/3/08)*

- 8-45-204 Camouflage Coating:** A coating applied on motor vehicles to conceal such vehicles from detection.  
*(Renumbered December 3, 2008)*
- 8-45-205 Catalyst:** A substance whose presence enhances the reaction between chemical compounds.  
*(Renumbered December 3, 2008)*
- 8-45-206 Clear Coating:** Any coating that contains no pigments and is labeled and formulated of application over a color coating or clear coating.  
*(Adopted December 3, 2008)*
- 8-45-207 Color Coating:** Any pigmented coating that requires a subsequent clear coating. Color coatings include metallic/iridescent color coatings and exclude adhesion promoters, primers, and multi-color coatings.  
*(Adopted December 3, 2008)*
- 8-45-208 Color Match:** The ability of a repair coating to blend into an existing coating so that color difference is not visible.  
*(Renumbered December 3, 2008)*
- 8-45-209 Electrostatic Application:** The application of charged atomized paint droplets that are deposited by electrostatic attraction.  
*(Amended, Renumbered December 3, 2008)*
- 8-45-210 Final Stage Manufacture:** Where an incomplete vehicle chassis is delivered to a manufacturer for installation and paint of a truck body and/or components to form a completed vehicle.  
*(Renumbered December 3, 2008)*
- 8-45-211 Graphic Design Application:** The application of logos, letters, numbers and graphics to a painted surface, with or without the use of a template.  
*(Renumbered December 3, 2008)*
- 8-45-212 Ground Support:** Vehicles used in support of aircraft activities at airports.  
*(Renumbered December 3, 2008)*
- 8-45-213 Group I Vehicles:** Passenger cars, large/heavy duty truck cabs and chassis, light- and medium-duty trucks and vans, and motorcycles.  
*(Renumbered December 3, 2008)*
- 8-45-214 Group II Vehicles and Equipment:** Public transit buses and mobile equipment.  
*(Renumbered December 3, 2008)*
- 8-45-215 High-Volume, Low-Pressure (HVL) Spray:** Equipment used to apply coatings by means of a gun that is designed to be operated and that is operated between 0.1 and 10 pounds per square inch, gauge (psig) air atomizing pressure measured dynamically at the center of the air cap and at the air horns.  
*(Amended 10/6/93; 11/2/94; Amended, Renumbered 12/3/08)*
- 8-45-216 Key System Operating Parameter:** An air pollution abatement operating parameter, such as temperature, flow rate or pressure that ensures operation of the abatement equipment within manufacturer specifications and compliance with the standards in Section 8-45-301.  
*(Adopted 6/1/94; Renumbered 12/3/08)*
- 8-45-217 Large/Heavy Duty Trucks:** Any truck having a manufacturer's gross vehicle weight rating of over 10,000 pounds.  
*(Renumbered December 3, 2008)*
- 8-45-218 Light and Medium-Duty Trucks and Vans:** Any truck or van having a manufacturer's gross vehicle weight rating of 10,000 pounds or less.  
*(Renumbered December 3, 2008)*
- 8-45-219 Metallic/Iridescent Topcoat:** Any coating that contains more than 5 g/l (.042 lb/gal) of metal or iridescent particles, as identified on a technical or material safety data sheet, as applied, where such particles are visible in the dried film.  
*(Amended, Renumbered December 3, 2008)*
- 8-45-220 Mobile Equipment:** Any equipment that may be drawn or is capable of being driven on rails or on a roadway, including, but not limited to, trains, railcars, truck bodies, truck trailers, camper shells, mobile cranes, bulldozers, street cleaners, golf carts and implements of husbandry or agriculture.  
*(Amended 11/2/94; Amended, Renumbered 12/3/08)*
- 8-45-221 Mobile Refinishing Operation:** Any refinishing operation that may change location or address between operations.  
*(Adopted December 3, 2008)*

**8-45-222 Mobile Refinishing Operator:** Any person who engages in mobile refinishing operations for compensation.

*(Adopted December 3, 2008)*

**8-45-223 Motor Vehicle:** Any self-propelled vehicle, including, but not limited to, a car, truck, bus, golf cart, van, motorcycle, tanks, and armored personnel carriers.

*(Adopted December 3, 2008)*

**8-45-224 Multi-Color Coating:** Any coating that exhibits more than one color in the dried film after a single application, is packaged in a single container, and hides surface defects on areas of heavy use, and which is applied over a primer or adhesion promoter. Gonioapparent coatings are not multi-color coatings.

*(Adopted December 3, 2008)*

**8-45-225 Multi-Stage Topcoat System:** A topcoat system composed of a basecoat / clearcoat, a basecoat/midcoat/clearcoat, or a groundcoat.

The VOC content of a basecoat/clearcoat coating system shall be calculated according to the following formula:

$$VOC_{MS} = \frac{VOC_{bc} + 2VOC_{cc}}{3}$$

The VOC content of a 3-Stage coating system shall be calculated according to the following formula:

$$VOC_{MS} = \frac{VOC_{bc} + VOC_{mc} + 2VOC_{cc}}{4}$$

The VOC content of a 4-Stage coating system shall be calculated according to the following formula:

$$VOC_{MS} = \frac{VOC_{gc} + VOC_{bc} + VOC_{mc} + 2VOC_{cc}}{5}$$

Where:

$VOC_{MS}$  is the sum of the VOC content, as applied, and used to determine compliance with the standards in Section 8-45-301.

$VOC_{gc}$  is the VOC content, as applied, of a pigmented groundcoat, basecoat or tinted primer sealer.

$VOC_{bc}$  is the VOC content, as applied, of a pigmented basecoat or translucent midcoat.

$VOC_{mc}$  is the VOC content, as applied, of a translucent midcoat or tinted clearcoat.

$2VOC_{cc}$  is two times the VOC content, as applied, of a transparent clearcoat.

Effective October 1, 2009, the VOC content of a multi-stage topcoat shall be considered separately as color coating and clear coating.

*(Amended 11/2/94; Amended, Renumbered 12/3/08)*

**8-45-226 Overall Control Efficiency:** The efficiency of an approved emission control system, measured by the collection system's capture efficiency multiplied by the destruction efficiency of the control device expressed as a percentage.

*(Adopted December 3, 2008)*

**8-45-227 Precoat:** Any coating that is applied to bare metal primarily to deactivate the metal surface prior to application of a subsequent primer surfacer. Effective April 1, 1995, a precoat shall be a coating that dries by oxidation or chemical polymerization.

*(Amended 11/2/94; 1/6/99; Amended, Renumbered 12/3/08)*

**8-45-228 Pretreatment Coating:** Any coating that contains a minimum of 0.5% acid by weight that is necessary to provide surface etching and is applied directly to bare metal surfaces to provide corrosion resistance and adhesion.

*(Amended, Renumbered December 3, 2008)*

**8-45-229 Primer:** Any coating that is labeled and formulated for application to a substrate on which a subsequent coating is applied. A primer may provide 1) a bond between the substrate and a subsequent coat, 2) corrosion resistance, 3) a smooth substrate surface, or 4) resistance to penetration of subsequent coats, and on which a subsequent coat is applied. Primers surfacers are primers and may be pigmented.

*(Amended 11/2/94; 1/6/99; Amended, Renumbered 12/3/08)*

**8-45-22130 Primer Sealer:** Any coating that is labeled and formulated for application prior to the application of a color coating or single-stage coating for the purpose of color

uniformity, or to promote the ability of the underlying coating to resist penetration by the color coating.

*(Amended 11/2/94; Amended, Renumbered 12/3/08)*

**8-45-231 Primer Surfer:** Any coating applied prior to the application of a topcoat for the purpose of corrosion resistance, adhesion of the topcoat, and that promotes a uniform surface by filling in surface imperfections.

*(Amended, Renumbered December 3, 2008)*

**8-45-232 Reducer:** The organic solvent used to thin coatings.

*(Amended, Renumbered December 3, 2008)*

**8-45-233 Refinishing:** Any coating of a vehicle, its parts and components, or mobile equipment, including partial body collision repairs, for the purpose of protection or beautification and that is subsequent to the original coating applied at an Original Equipment Manufacturing (OEM) plant coating assembly line.

*(Amended 11/2/94; Amended, Renumbered 12/3/08)*

**8-45-234 Single-Stage Coating:** Any pigmented coating, excluding primers and multi-color coatings, labeled and formulated for application without a subsequent clear coat. Single-stage coatings include single-stage metallic/iridescent coatings.

*(Adopted December 3, 2008)*

**8-45-235 Specialty Coatings:** Unique coatings and compliant coatings with additives that are necessary due to unusual job performance requirements. Said coatings include, but are not limited to, adhesion promoters, uniform finish blenders, elastomeric materials, gloss flatteners, bright metal trim repair, and anti-glare/safety coatings.

*(Amended, Renumbered December 3, 2008)*

**8-45-236 Spot Repair:** Repair of an area on a motor vehicle, piece or mobile equipment, or associated parts or components of less than an entire panel.

*(Adopted December 3, 2008)*

**8-45-237 Temporary Protective Coating:** A coating applied for the purpose of protecting adjacent areas to that being painted from overspray. The temporary protective coating is removed after primer or topcoat application.

*(Adopted 11/2/94; Amended, Renumbered 12/3/08)*

**8-45-238 Topcoat:** Any coating applied over a primer, primer system, or an original OEM finish for the purpose of protection or appearance. For the purposes of this Rule, the VOC limits for solid color and metallic/iridescent topcoats are for single stage applications. A multi stage topcoat may be either a solid or metallic/iridescent coat, the VOC<sub>MS</sub> of a multi stage topcoat system will determine compliance with the VOC standards in Section 8-45-301.1 or 301.2. Effective October 1, 2009, topcoats include color coating, clear coating, single-stage coating and uniform finish blender.

*(Amended 11/2/94; 12/3/08)*

**8-45-239 Touch-up Coating:** A coating applied by brush or air brush by the owner or manufacturer of the motor vehicle or mobile equipment to repair minor surface damage and imperfections.

*(Amended 6/20/90; Amended, Renumbered 12/3/08)*

**8-45-240 Transfer Efficiency:** The ratio of the amount of coating solids adhering to the object being coated to the total amount of coating solids used in the application process, expressed as a percentage.

*(Renumbered December 3, 2008)*

**8-45-241 Truck Bed Liner Coating:** Any coating, excluding clear, color, multi-color, and single-stage coatings, labeled and formulated for application to a truck bed to protect it from surface abrasion.

*(Adopted December 3, 2008)*

**8-45-242 Underbody Coating:** Any coating labeled and formulated for application to wheel wells, the inside of door panels or fenders, the underside of a trunk or hood, or the underside of the motor vehicle.

*(Adopted December 3, 2008)*

**8-45-243 Uniform Finish Coating:** Any coating labeled and formulated for application to the area around a spot repair for the purpose of blending a color of a repaired area or clear coat to match the appearance of an adjacent area's existing coating.

*(Adopted December 3, 2008)*

**8-45-244 Utility Body:** A body designed for and mounted on a light or medium duty truck or van.

*(Adopted 11/2/94; Renumbered 12/3/08)*

**8-45-245 Volatile Organic Compound:** Any organic compound (excluding methane, carbon monoxide, carbon dioxide, carbonic acid, metallic carbides or carbonates and ammonium carbonate) that would be emitted during use, application, curing or drying of a solvent or surface coating.

245.1 For purposes of calculating VOC content of a coating, any water or any of the following compounds:

- acetone
- parachlorobenzotrifluoride (PCBTF)
- cyclic, branched or linear, fully methylated siloxanes

shall not be considered to be part of the coating.

245.2 For the purposes of calculating the VOC content of surface preparation solvent or temporary protective coating, any water or the following compounds:

- acetone
- parachlorobenzotrifluoride (PCBTF)
- cyclic, branched or linear, completely methylated siloxanes (VMS)

shall be considered part volume of the solvent or temporary protective coating or solvent but not be considered part of the VOC content of the solvent or temporary protective coating.

*(Amended 11/2/94; 12/20/95; 11/6/96; Amended, Renumbered 12/3/08)*

## **8-45-300 STANDARDS**

**8-45-301 Coating Limits:** Any person who applies coatings to Group I or II vehicles, mobile equipment, their parts and components, shall comply with Section 8-45-301.1 or 301.2 below:

301.1 Group I Vehicles: Until October 1, 2009, a person shall not refinish Group I vehicles, their parts and components, using any coating with a VOC content in excess of the following limits, expressed as grams of VOC per liter (or pounds per gallon) of coating applied, excluding water and exempt solvents, unless emissions to the atmosphere are controlled to an equivalent level by air pollution abatement equipment with an overall control efficiency of at least 85% and that meets the requirements of Regulation 2, Rule1:

	VOC
Pretreatment Wash Primer	780 g/l (6.5 lbs/gal)
Precoat	580 g/l (4.8 lbs/gal)
Primer/Primer Surfacer	250 g/l (2.1 lbs/gal)
Primer Sealer	420 g/l (3.5 lbs/gal)
Solid Color Topcoat	420 g/l (3.5 lbs/gal)
Metallic/Iridescent Topcoat	520 g/l (4.3 lbs/gal)
Multi -Stage Topcoat System	540 g/l (4.5 lbs/gal)
Temporary Protective Coating	60 g/l (0.5 lbs/gal)

301.2 Group II Vehicles and Mobile Equipment: Until October 1, 2009, a person shall not finish or refinish Group II vehicles and equipment or their parts and components using any coating with a VOC content in excess of the following limits, expressed as grams of VOC per liter (or pounds per gallon) of coating applied, excluding water and exempt solvents, unless emissions to the atmosphere are controlled to an equivalent level by air pollution abatement equipment with an overall control efficiency of at least 85% and that meets the requirements of Regulation 2, Rule 1:

	VOC
Pretreatment Wash Primer	780 g/l (6.5 lbs/gal)
Precoat	580 g/l (4.8 lbs/gal)
Primer/Primer Surfacer	250 g/l (2.1 lbs/gal)
Primer Sealer	340 g/l (2.8 lbs/gal)
Topcoat	420 g/l (3.5 lbs/gal)
Metallic/Iridescent Topcoat	420 g/l (3.5 lbs/gal)

Camouflage	420 g/l (3.5 lbs/gal)
Temporary Protective Coating	60 g/l (0.5 lbs/gal)

301.3 Effective on the dates specified, no person shall finish or refinish any vehicles, mobile equipment or their parts and components using any coating with a VOC content in excess of the following limits, expressed as grams of VOC per liter (or pounds per gallon) of coating applied, excluding water and exempt solvents, in excess of the following limits unless emissions to the atmosphere are controlled to an equivalent level by air pollution abatement equipment with an overall control efficiency of at least 85% and which meets the requirements of Regulation 2, Rule 1:

Coating Product	October 1, 2009 VOC	January 1, 2010 VOC
Adhesion Promoter	840 g/l (7.0 lbs/gal)	540 g/l (4.5 lb/gal)
Clear Coating	250 g/l (2.1 lbs/gal)	
Color Coating	420 g/l (3.5 lbs/gal)	
Multi-Color Coating	680 g/l (5.7 lbs/gal)	
Pretreatment Coating	660 g/l (5.5 lbs/gal)	
Primer	250 g/l (2.1 lbs/gal)	
Primer Sealer	340 g/l (2.8 lbs/gal)	250 g/l (2.1 lbs/gal)
Single-Stage Coating	420 g/l (3.5 lbs/gal)	340 g/l (2.8 lbs/gal)
Temporary Protective Coating	60 g/l (0.5 lbs/gal)	
Truck Bed Liner Coating	310 g/l (2.6 lbs/gal)	
Underbody Coating	430 g/l (3.6 lbs/gal)	
Uniform Finish Coating	540 g/l (4.5 lbs/gal)	
Any Other Coating Type	250 g/l (2.1 lbs/gal)	

*(Amended 10/6/93; 6/1/94; 11/2/94; 1/6/99; 12/3/08)*

**8-45-302 Deleted October 6, 1993**

**8-45-303 Transfer Efficiency:** A person shall not apply any coating to any Group I or II motor vehicles or mobile equipment or their parts and components with spray application equipment unless one of the following methods is used:

- 303.1 Electrostatic application equipment, operated in accordance with the manufacturer's recommendations;
- 303.2 High-Volume, Low-Pressure (HVLP) spray equipment, operated in accordance with the manufacturer's recommendations; or
- 303.3 Any alternative coating application method that achieves a transfer efficiency equivalent to, or higher than, the application methods listed in Section 8-45-303.1 or 303.2. Prior written approval from the APCO shall be obtained for each alternative method used.

*(Amended 10/6/93; 11/2/94; 12/3/08)*

**8-45-304 Prohibition of Specification:** No person shall solicit or require for use or specify the application of a coating on a Group I or II motor vehicle, mobile equipment, or part or component thereof if such use or application results in a violation of the provisions of this Rule. The prohibition of this Section shall apply to all written or oral contracts under the terms of which any coating that is subject to the provisions of this Rule is to be applied to any motor vehicle, mobile equipment, or part or component at any physical location within the District.

**8-45-305 Prohibition of Sale or Manufacture:** No person shall supply, offer for sale, sell, manufacture, blend, repackage for sale within the District, ship into the District any coating if such product is prohibited by any of the provisions of this Rule, unless the coating is for use exclusively within an approved emissions control system. The prohibition of this Section shall apply to the sale of any coating that will be applied at any physical location within the District.

*(Amended 11/2/94; 12/3/08)*

**8-45-306 Moved to Section 8-45-406**

**8-45-307 Deleted November 2, 1994**

**8-45-308 Surface Preparation and Solvent Loss Minimization:** Any person using organic solvent for surface preparation and cleanup or mixing, using or disposing of coating or stripper containing organic solvent:

- 308.1 Shall close containers used for the storage or disposal of cloth or paper used for solvent surface preparation and cleanup.
- 308.2 Shall close containers of fresh or spent solvent, coating, catalyst, thinner, or reducer when not in use.
- 308.3 Shall not use organic compounds for the cleanup of spray equipment, including paint lines, unless equipment for collecting the organic compounds and minimizing their evaporation to the atmosphere is used.
- 308.4 Until October 1, 2009, the VOC content of surface preparation solvent shall not exceed 72 g/l (0.6 lb/gal). This limit shall not apply to surface preparation solvent applied from a hand held spray bottle. The VOC content of surface preparation solvent used to clean plastic parts shall not exceed 780 g/l (6.5 lbs/gal).
- 308.5 Effective October 1, 2009, the VOC content of surface preparation solvent shall not exceed 25 g/l (0.2 lb/gal). This limit shall not apply to surface preparation solvent used as bug and tar remover provided that the VOC content of such solvent does not exceed 350 g/l (2.9 lb/gal). Usage of solvent used as bug and tar remover is limited as follows:
  - a. 20 gallons in any consecutive 12-month period for facilities and operations with 400 gallons or more of coating usage per year;
  - b. 15 gallons in any consecutive 12-month period for facilities and operations with 150 gallons or more of coating usage per year; and
  - c. 10 gallons in any consecutive 12-month period for facilities and operations with less than 150 gallons of coating usage per year.

*(Amended 11/2/94; 12/3/08)*

**8-45-309 Deleted October 6, 1993**

**8-45-310 Deleted October 6, 1993**

**8-45-311 Small Production/Utility Bodies:** Until October 1, 2009 a person shall not coat utility bodies where the coating must match that of the vehicles upon which they will be mounted using any coating with a VOC content in excess of the standards set forth in Subsection 8-45-301.1, provided production is less than 20 vehicles per day.

**8-45-312 Specialty Coatings:** Until October 1, 2009 a person shall not use any specialty coating with a VOC content in excess of 840 g/l (7.0 lbs/gal), as applied, excluding water and exempt solvents. Use of all specialty coatings except antiglare/safety coatings shall not exceed 5.0 percent of all coatings applied, on a monthly basis. Effective October 1, 2009, the volume of adhesion promoter, uniform finish coating and multi-color coating combined shall not exceed 5.0 percent of all topcoats applied, on a monthly basis.

*(Amended 11/2/94; 12/3/08)*

**3-45-313 Deleted December 3, 2008**

**8-45-314 Precoat Limitation:** Until October 1, 2009, a person shall not use precoat in excess of 25%, by volume, of the amount of primer surfacer used.

*(Adopted 11/2/94; Amended 1/6/99; 12/3/08)*

**8-45-315 HVLP Marking:** A person shall not sell or offer for sale for use within the District any HVLP gun without a permanent marking denoting the maximum inlet air pressure in psig at which the gun will operate within the parameters specified in Section 8-45-215.

*(Adopted 11/2/94; Amended 12/3/08)*

**8-45-316 Filtration:** A person shall not apply single or multi-stage topcoats subject to Section 8-45-301 to any vehicle except when exhausted through properly maintained particulate filtration media. Effective October 1, 2009, a person shall not apply clear coating, color coating, multi-color coating, single-stage coating or uniform finish coating to any vehicle except when exhausted through properly maintained particulate filtration media. This requirement applies to all persons applying coating subject to this Rule at stationary and mobile locations. The filter system shall meet the requirements of Regulation 2, Rule 1, as applicable.

*(Adopted 11/2/94; Amended 12/3/08)*

**8-45-317 Most Restrictive VOC Limit:** If anywhere on the container or any automotive coating, or any label or sticker affixed to the container, or in any sales, advertising, or technical literature supplied by a person, any representation is made that indicates that the coating meets the definition of or is recommended for use for more than one

of the coating categories listed in Section 8-45-301.3, then the lowest VOC content limit shall apply.

*(Adopted December 3, 2008)*

**8-45-318 Prohibition of Possession:** Effective October 1, 2009, no person shall possess, at any automotive refinishing facility or at any mobile refinishing operation, any automotive coating that is not in compliance with Section 8-45-301.3.

*(Adopted December 3, 2008)*

**8-45-319 National Emission Standards for Hazardous Air Pollutants (NESHAP): Paint Stripping and Miscellaneous Surface Coating Operations at Area Sources:** In addition to the requirements of this Rule, motor vehicle and mobile equipment coating operations are subject to the requirements of 40CFR63, subpart HHHHHH, as applicable.

*(Adopted December 3, 2008)*

## **8-45-400 ADMINISTRATIVE REQUIREMENTS**

**8-45-401 Deleted November 2, 1994**

**8-45-402 Registration for Mobile Refinishing Operations:** No later than October 1, 2009, any person engaging in mobile refinishing operations shall register the mobile refinishing operation in accordance with Regulation 1, Section 410. Any person registering a mobile refinishing operation shall pay the fees required, as set forth in Regulation 3.

*(Adopted December 3, 2008)*

**8-45-403 Reporting Requirements for Mobile Refinishing Operators:** Effective October 1, 2009, any mobile refinishing operator shall, upon request supply the APCO with a list of scheduled clients including name, address and anticipated schedule for each.

*(Adopted December 3, 2008)*

**8-45-404 VOC Labeling Requirements:** Effective October 1, 2009, the manufacturer and re-packager of any automotive coating, automotive coating component or surface preparation or clean up solvent subject to this Rule that is manufactured on or after October 1, 2009 shall include on all containers the applicable use category (or categories), and the VOC content for the coating, component or solvent, expressed in grams per liter.

*(Adopted December 3, 2008)*

**8-45-405 Compliance Statement Requirement:** Any manufacturer or re-packager of coatings, coating components and solvents subject to this Rule shall provide to operators of motor vehicle and mobile equipment coating operations, on product data sheets or an equivalent medium, information sufficient to determine compliance with the provisions of this Rule. Such information shall include:

- 405.1 VOC content of coatings, components and solvents in grams per liter, as defined in Section 8-45-231;
- 405.2 VOC content of each recommended mix ratio; and
- 405.3 Information sufficient to determine emissions from use of coatings and solvents subject to this Rule, such as weight percentage of VOC or volume percentage and density of VOC.

*(Amended, Renumbered December 3, 2008)*

## **8-45-500 MONITORING AND RECORDS**

**8-45-501 Records:** Any person subject to Sections 8-45-301 and 308 shall:

- 501.1 Maintain and have available during an inspection a current list of coatings in use that provides all of the coating data necessary to evaluate compliance, including the following information, as applicable:
  - a. coating, catalyst and reducer used
  - b. mix ratio of components used for each coating applied
  - c. VOC content of coating as applied.
- 501.2 Record, and total, on a monthly basis, the following information:
  - a. quantity of each coating applied
  - b. type, mix or dilution ratio and quantity of solvent used for cleanup and surface preparation.

- 501.3 Current manufacturer product specification sheets, material safety data sheets, technical data sheets, or air quality data sheets, that list the compliance statement information required by Section 8-45-406.
- 501.4 Records shall be retained and available for inspection by the APCO for the previous 24-month period. Effective November 1, 2009, records shall be maintained and made available for inspection by the APCO for the previous 36-month period.

*(Amended 11/2/94; 12/3/08)*

- 8-45-502 Air Pollution Abatement Equipment, Recordkeeping Requirements:** Any person operating air pollution abatement equipment to comply with Sections 8-45-301.1 through 301.3, in addition to Section 8-45-501 shall record on a daily basis:
- a. amount of coating, VOC content and mix ratio of components in the coating used, and
  - b. key system operating parameters.

*(Adopted 6/1/94; Amended 11/2/94; 12/3/08)*

- 8-45-503 Precoat Limitation Records:** Until October 1, 2009, any person using precoat shall retain purchase invoices to verify compliance with Section 8-45-314. Such invoices shall be available for inspection upon request.

*(Adopted 11/2/94; Amended 12/3/08)*

- 8-45-504 Sales Records:** Any person within the District who sells, offers for sale, supplies or distributes coatings subject to this Rule shall make receipts of customer purchases available for inspection upon request and keep a detailed log of each automotive coating supplied, sold or distributed showing:

- 504.1 The quantity manufactured, supplied, sold, or distributed, including size and number of containers.
- 504.2 The VOC content for coatings; and
- 504.3 To whom the coatings were supplied, sold, or distributed including name, address, phone number, retail tax license number, and District permit number or registration number, as applicable.

*(Adopted 11/2/94; Amended 12/3/08)*

- 8-45-505 Recordkeeping Requirements for Clients of Mobile Refinishing Operators:** Effective October 1, 2009, any person for whom mobile refinishing operations were conducted at least five times in any one-year period or for which 25 vehicles were refinished in any one-year period shall keep a records indicating the following:

- 505.1 The name, address, phone number, retail tax license number, and valid District registration number of each mobile refinishing operator utilized;
- 505.2 The date(s) each mobile refinisher engaged in mobile refinishing operations;
- 505.3 The number(s) of vehicles refinished by each mobile refinisher on the date(s) of operation.

*(Adopted December 3, 2008)*

## **8-45-600 MANUAL OF PROCEDURES**

- 8-45-601 Analysis of Samples:** Samples of volatile organic compounds as specified in Section 8-45-301.1 or 301.2 shall be analyzed as prescribed in the Manual of Procedures (MOP), Volume III, Method 21 or 22. Samples of volatile organic compounds as specified in Section 8-45-308.4 shall be analyzed as prescribed in the MOP, Volume III, Method 31. Samples containing volatile methylsiloxanes shall be analyzed as prescribed in the MOP, Vol. III, Method 43.

*(Amended 11/2/94; 11/6/96; 12/3/08)*

- 8-45-602 Determination of Emissions, Operations with an Emission Control System:** Emissions of volatile organic compounds from source operations controlled by an emission control system shall be determined as follows:

- 602.1 Capture efficiency shall be determined as specified in 40 CFR 51, Appendix M, Test Methods 204 – 204F, as applicable.
- 602.2 Control device destruction efficiency shall be determined as specified in the Manual of Procedures, Volume IV, ST-7 or EPA Method 25 or 25A.
- 602.3 For the determination of control device destruction efficiency, any non-precursor organic compound specified in Section 8-20-216 shall be included as a volatile organic compound.

602.4 The overall efficiency of an emission control system, expressed as a percentage, shall be calculated according to the following equation:

$$OE = [CE \times DE]/100$$

Where:

OE = Overall efficiency

CE = Capture efficiency

DE = Control device destruction efficiency

602.5 A source shall be in violation if the VOC emissions exceed the standards of this rule as measured by any of the reference test methods.

*(Amended 6/1/94; 11/6/96; 12/3/2008)*

**8-45-603 Deleted October 6, 1993**

**8-45-604 Determination of Acid Content:** Measurement of acid content as specified in Section 8-45-219 shall be determined in accordance with ASTM Test Method D-1613-85.

*(Adopted October 6, 1993)*

**8-45-605 Determination of Metallic Content:** The metallic content of a coating (as specified in Section 8-45-216) shall be determined by South Coast Air Quality Management District Method 318-95, "Determination of Weight Percent Elemental Metal in Coating by X-Ray" (July 1996).

*(Adopted December 3, 2008)*

**8-45-606 Determination of Methyl Acetate, Acetone, t-Butyl Acetate, and PCBTF Contents:** The quantity of methyl acetate, acetone, t-butyl acetate, and parachlorobenzotrifluoride (as specified in Section 8-45-245) shall be determined by using ASTM Method D6133-02: "Standard Test Method for Acetone, p-Chlorobenzotrifluoride, Methyl Acetate or t-Butyl Acetate Content of Solventborne and Waterborne Paints, Coatings, Resins, and Raw Materials by Direct Injection Into a Gas Chromatograph."

*(Adopted December 3, 2008)*

**8-45-607 Spray Equipment Transfer Efficiency:** Any demonstration of the transfer efficiency of an alternative coating application equipment shall be determined in accordance with the provisions of South Coast Air Quality Management District "Spray Equipment Transfer Efficiency Test Procedure for Equipment User" dated May 24, 1989.

*(Adopted December 3, 2008)*