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**RULE 1151. MOTOR VEHICLE AND MOBILE EQUIPMENT
NON-ASSEMBLY LINE COATING OPERATIONS**

(a) Purpose

The purpose of this rule is to reduce Volatile Organic Compound (VOC) emissions, toxic air contaminants, stratospheric ozone-depleting compounds, and global-warming compound emissions from Automotive Coating applications performed on Motor Vehicles, Mobile Equipment, and Associated Parts and Components.

(b) Applicability

This rule is applicable to any person who supplies, sells, offers for sale, markets, manufactures, blends, packages, repackages, possesses, or distributes any Automotive Coating, Automotive Coating Component, or associated solvent for use within the South Coast AQMD, as well as any person who uses, applies, or solicits the use or application of any Automotive Coating, Automotive Coating Component, or associated solvent within the South Coast AQMD.

(c) Definitions

- (1) ADHESION PROMOTER means any Automotive Coating that is specifically labeled and formulated to be applied to uncoated plastic and other synthetic surfaces, excluding metals, to facilitate bonding of subsequent Automotive Coatings.
- (2) AEROSOL COATING PRODUCT means a pressurized Coating product containing pigments or resins that dispenses product ingredients by means of a propellant, and is packaged in a disposable can for hand-held application, or for use in specialized equipment for ground traffic/marketing applications.
- (3) ASSEMBLY LINE means an arrangement of industrial equipment and workers in which the product passes from one specialized operation to another until complete, by either automatic or manual means.

- (c) (4) ASSOCIATED PARTS AND COMPONENTS means structures, devices, pieces, modules, sections, assemblies, subassemblies, or elements of any Motor Vehicle or Mobile Equipment that are designed to be a part of any Motor Vehicle or Mobile Equipment but that are not attached to any Motor Vehicle or Mobile Equipment at the time of the application of an Automotive Coating to such structure, device, piece, module, section, assembly, subassembly, or element. Associated Parts and Components do not include circuit boards.
- (5) AUTOMOTIVE COATING means any Coating used or recommended for use in Motor Vehicles, Mobile Equipment, or Associated Parts and Components in refinishing, service, maintenance, repair, restoration, or modification, except metal plating activities, as applied, as a Ready-to-Spray Automotive Coating. Any reference to automotive refinishing or Automotive Coating on the container or in product literature constitutes a recommendation for use in Motor Vehicle, Mobile Equipment, and Associated Parts and Components refinishing.
- (6) AUTOMOTIVE COATING COMPONENT means any portion of a Coating, including, but not limited to, a Reducer or Thinner, toner, hardener, or additive, that is used, or recommended for use, in an Automotive Coating. The raw materials used to produce the components are not considered Automotive Coating Components.
- (7) AUTOMOTIVE GRAPHIC ARTS OPERATION means the application of logos, letters, designs, numbers, or graphics to a painted surface by brush, roller, or airbrush.
- (8) AUTOMOTIVE REFINISHING FACILITY means any shop, business, location, or parcel of land where Motor Vehicles, Mobile Equipment, or Associated Parts and Components are coated, including autobody collision repair shops. Automotive Refinishing Facility does not include the original equipment manufacturing plant where the Motor Vehicle or Mobile Equipment is completely assembled.
- (9) CLEAR COATING means any Automotive Coating that is formulated with materials that do not impart color and is specifically labeled and formulated for application over a Color Coating or a previous layer of a Clear Coating.
- (10) COATING means a material that is applied to a surface and forms a film in order to beautify, preserve, repair, or protect such a surface.

- (c) (11) **COLOR COATING** means any pigmented Automotive Coating, excluding automotive Adhesion Promoters and Primers, that requires a subsequent Clear Coating, and that is applied over a Primer, Adhesion Promoter, or a previous layer of a Color Coating. Color Coatings include metallic and iridescent color coatings, which mean Automotive Coatings that contain more than 0.042 pounds per gallon (5 grams per liter) of metal or iridescent particles as applied, where such particles are visible in the dried film.
- (12) **ELECTROSTATIC SPRAY APPLICATION** means any method of spray application of Automotive Coatings where an electrostatic attraction is created between the part to be coated and the paint particles.
- (13) **EMISSION CONTROL SYSTEM** means any combination of capture systems and control devices used to reduce VOC emissions from Automotive Coating operations.
- (14) **EPOXY PRIMER** means any Primer formulated with an epoxy resin and a hardener that is labeled and formulated for application directly to metal surfaces for adhesion, resistance to moisture and corrosion, and where the primary function is to bond to the base material and seal for subsequent work.
- (15) **EXEMPT COMPOUNDS** are as defined in Rule 102 – Definition of Terms (Rule 102).
- (16) **GLOSS CLEAR COATING** means any Automotive Coating that is formulated with materials that do not impart color, is specifically labeled and formulated for application over a Color Coating or a previous layer of a Clear Coating, and that registers a gloss of 70 units or greater on a 60-degree meter, according to ASTM Test Method D523 – Specular Gloss (ASTM Test Method D523).
- (17) **GRAMS OF VOC PER LITER OF COATING LESS WATER AND LESS EXEMPT COMPOUNDS (REGULATORY VOC)**, is the weight of VOC per combined volume of VOC and Coating solids and shall be calculated by the following equation:

(c) (17) Grams of VOC per Liter of Coating, Less

$$\text{Water and Less Exempt Compounds} = \frac{W_v - W_w - W_{ex}}{V_m - V_w - V_{ex}}$$

- Where: W_v = weight of volatile compounds in grams
(includes water, Exempt Compounds, and VOCs)
- W_w = weight of water in grams
- W_{ex} = weight of Exempt Compounds in grams
- V_m = volume of material in liters
- V_w = volume of water in liters
- V_{ex} = volume of Exempt Compounds in liters

(18) GRAMS OF VOC PER LITER OF MATERIAL (ACTUAL VOC), is the weight of VOC per volume of material and shall be calculated by the following equation:

$$\text{Grams of VOC per Liter of Material} = \frac{W_v - W_w - W_{ex}}{V_m}$$

- Where: W_v = weight of volatile compounds in grams
(includes water, Exempt Compounds, and VOCs)
- W_w = weight of water in grams
- W_{ex} = weight of Exempt Compounds in grams
- V_m = volume of material in liters

(19) HIGH-VOLUME, LOW-PRESSURE (HVLP) means spray application equipment designed to atomize 100 percent by air pressure only and 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.

(20) MATTE CLEAR COATING means any Automotive Coating that is formulated with materials that do not impart color, is specifically labeled and formulated for application over a Color Coating or a previous layer of a Matte Clear Coating, and that registers a gloss of less than 70 units on a 60-degree meter, according to ASTM Test Method D523.

- (c) (21) **MAXIMUM INCREMENTAL REACTIVITY (MIR)** means the measure of the photochemical reactivity of a VOC, which estimates the weight of ozone produced from a weight of VOC expressed as gram of ozone per gram of VOC (g O₃/g VOC). MIR values for individual VOCs are specified in Sections 94700 and 94701, Title 17, California Code of Regulations.
- (22) **MOBILE EQUIPMENT** means any device that may either be drawn or driven on rails or a roadway including, but not limited to, trains, railcars, truck trailers, mobile cranes, bulldozers, street cleaners, and implements of husbandry or agriculture.
- (23) **MOTOR VEHICLE** means any self-propelled vehicle, including, but not limited to, motorcycles, passenger cars, light-duty trucks, medium-duty and heavy-duty vehicles (as defined in Section 1900, Title 13, of the California Code of Regulations), vans, buses, golf carts, tanks, and armored personnel carriers.
- (24) **PRETREATMENT WASH PRIMER** means any Automotive Coating that contains a minimum of 0.5 percent acid by weight and not more than 16 percent solids by weight, is necessary to provide surface etching, and that is specifically labeled and formulated for application directly to bare metal surfaces to provide corrosion resistance and adhesion.
- (25) **PRIMER** means any Automotive Coating that is specifically labeled and formulated for application to a substrate to provide 1) a bond between the substrate and subsequent coats, 2) corrosion resistance, 3) a smooth substrate surface, or 4) resistance to penetration of subsequent coats, for the purpose of applying a subsequent Automotive Coating. Primers may be pigmented and include Weld-Through Primers, Epoxy Primers, Primer Sealers, and Primer Surfacer.
- (26) **PRIMER SEALER** means any Coating applied prior to the application of a topcoat for the purpose of color uniformity, or to promote the ability of an underlying Coating to resist penetration by the topcoat.
- (27) **PRIMER SURFACER** means any Coating applied for the purpose of corrosion resistance or adhesion, and that promotes a uniform surface by filling in surface imperfections.
- (28) **PRIVATE LABELER** is the person, company, firm, or establishment (other than the toll manufacturer) identified on the label of a Regulated Product.

- (c) (29) PRODUCT-WEIGHTED MIR (PW-MIR) means the sum of all weighted-MIR for all ingredients in a Regulated Product. The PW-MIR is the total product reactivity expressed to hundredths of a gram of ozone formed per gram of product (excluding container and packaging) and calculated according to the following equations:

Weighted MIR (Wtd-MIR) ingredient = MIR x Weight fraction ingredient,
and,

$$\text{PW-MIR} = (\text{Wtd-MIR})_1 + (\text{Wtd-MIR})_2 + \dots + (\text{WtdMIR})_n$$

where,

MIR = ingredient MIR; and

1,2,3,...,n = each ingredient in the product up to the total n ingredients in the product.

- (30) READY-TO-SPRAY AUTOMOTIVE COATING means the Automotive Coating, mixed with any Automotive Coating Components as recommended by the manufacturer's stated mix ratio.
- (31) REDUCER OR THINNER means any solvent specifically labeled and formulated to reduce the viscosity of Automotive Coatings.
- (32) REGULATED PRODUCT means any Automotive Coating or Automotive Coating Component.
- (33) SINGLE-STAGE COATING means any pigmented Automotive Coating, (excluding automotive Adhesion Promoters and Primers), specifically labeled and formulated for application without a subsequent Clear Coating and that may be applied over an Adhesion Promoter, a Primer, or a Color Coating. Single-stage Coatings include single-stage metallic color coatings.
- (34) SOLVENT CLEANING is as defined in Rule 1171 – Solvent Cleaning Operations (Rule 1171).
- (35) SOUTH COAST AQMD TEST METHOD means a test method included in the manual of "Laboratory Methods of Analysis for Enforcement Samples," which can be found on the South Coast AQMD website and are referenced in subdivision (i).
- (36) SPOT REPAIR means repair of an area on a Motor Vehicle, Mobile Equipment, or Associated Parts and Components of one square foot (929 square centimeters) or less.

- (c)
 - (37) TEMPORARY PROTECTIVE COATING means any Automotive Coating specifically labeled and formulated for the purpose of temporarily protecting areas from overspray or mechanical damage.
 - (38) TINTED MID-COAT means a transparent color coating specifically labeled and formulated to add depth and color-match to a three-stage metallic or iridescent coating system.
 - (39) TRANSFER EFFICIENCY means the amount of Coating solids adhering to the object being coated divided by the total amount of Automotive Coating solids sprayed, expressed as a percentage.
 - (40) TRUCK BED LINER COATING means any Automotive Coating, excluding color and Single-stage Coatings, specifically labeled and formulated for application to a truck bed to protect it from surface abrasion.
 - (41) UNDERBODY COATING means any Automotive Coating specifically 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.
 - (42) UNIFORM FINISHING COATING means any Automotive Coating specifically labeled and formulated for application to the area around a Spot Repair for the purpose of blending a repaired area's color or clear coat to match the appearance of an adjacent area's existing Coating.
 - (43) VOLATILE ORGANIC COMPOUND (VOC) is as defined in Rule 102. For the purpose of this rule, *tert*-butyl acetate (t-BAc) is not a VOC when used in automotive coatings other than color coatings and clear coatings until the applicable prohibition timeline in Table 4.
 - (44) WELD-THROUGH PRIMER means an Automotive Coating designed and labeled exclusively to provide a bridging or conducting effect for corrosion protection following welding.
- (d) Requirements
 - (1) A person shall not apply any Automotive Coating to a Motor Vehicle, Mobile Equipment, or Associated Parts and Components of a Motor Vehicle or Mobile Equipment, that contains VOC in excess of the applicable limits specified in Table 1 - Table of Standards Regulatory VOC Content Limits for Automotive Coatings and Effective Dates (Table 1). Compliance with the applicable VOC content limits shall be based on VOC content, including any material added to the original Automotive Coating

- (d) (1) supplied by the manufacturer, as applied, less water and Exempt Compounds. Automotive Coatings formulated to comply with Phase I and Phase II VOC limits shall not contain more than 0.01 weight percent of either para-Chlorobenzotrifluoride (pCBtF) or t-BAc.

**Table 1- Table of Standards
Regulatory VOC Content Limits and Effective Dates for Automotive Coatings**

Coating Categories	Current Limits ⁽¹⁾		Phase I Limits Effective November 1, 2024		Phase II Limits		
	g/L	lb/gal	g/L	lb/gal	g/L	lb/gal	Effective Date
Base Coatings							
Color Coating ⁽²⁾	420	3.5			250	2.1	1/1/2030
Tinted Mid-Coat	420	3.5	750	6.3	250	2.1	1/1/2030
Clear Coatings							
Gloss Clear Coating	250	2.1	520	4.3	250	2.1	1/1/2030
Matte Clear Coating	250	2.1	550	4.6			
Primers and Sealers							
Pretreatment Wash Primer	660	5.5	780	6.5	660	5.5	1/1/2028
Epoxy Primer	250	2.1	580	4.8	340	2.8	1/1/2028
Primer Sealer	250	2.1	550	4.6	250	2.1	1/1/2029
Primer Surfacer	250	2.1	580	4.8	250	2.1	1/1/2029
Other Coating Categories							
Adhesion Promoter	540	4.5	840	7.0	720	6.0	1/1/2028
Single-Stage Coating	340	2.8	600	5.0	340	2.8	1/1/2028
Temporary Protective Coating	60	0.5					
Truck Bed Liner Coating	310	2.6					
Underbody Coating	430	3.6					
Uniform Finishing Coating	540	4.5					
Any Other Coating Type	250	2.1					

1 The specified limits remain in effect unless revised limits are listed in subsequent columns in the Table of Standards.
 2 See Paragraph (d)(4) for Color Coatings supplied in half-pint or smaller containers.

- (d) (2) On and after the effective date in Table 2, a person shall not manufacture, supply, sell, offer for sale, market, blend, distribute, possess, package, or repackage any Reducer or Thinner for use within the South Coast AQMD that contains VOCs in excess of the PW-MIR limit specified in Table 2.

Table 2– PW-MIR VOC Content Limit and Effective Date for Reducers and Thinners

	PW-MIR VOC Limit (g O₃/g VOC)	Effective Date
Reducer and Thinner	1.50	1/1/2030

- (3) **Most Restrictive Coating Category**
 If anywhere on the container of any Automotive Coating; on any sticker or label affixed thereto; or in any sales, advertising, or technical literature, any representation or information indicates that the Automotive Coating may be used as, or is suitable for use as, more than one of the Automotive Coating categories listed in Table 1, then the lowest applicable VOC content limit shall apply.
- (4) **Alternative VOC Content Limits for Color Coatings**
 In lieu of complying with the Phase I Color Coating VOC limit, and until January 1 2030, a person may elect to manufacture, supply, sell, offer for sale, market, blend, distribute, possess, package, or repackage any Color Coating for use within the South Coast AQMD, or apply a Color Coating to a Motor Vehicle, Mobile Equipment, or Associated Parts and Components of a Motor Vehicle or Mobile Equipment, that is supplied in half-pint or smaller containers, provided the Regulatory VOC content is no more than 720 g/L and the Color Coating does not contain more than 0.01 percent by weight of either pCBtF or t-BAc.
- (5) **Alternative VOC Content Limits for Adhesion Promoters and Pretreatment Wash Primers**
 In lieu of complying with the applicable Table 1 Phase II VOC limits for Adhesion Promoters and Pretreatment Wash Primers, a person may elect to manufacture, supply, sell, offer for sale, market, blend, distribute, possess, package, or repackage any Adhesion Promoter or Pretreatment Wash Primers for use within the South Coast AQMD, or apply an Adhesion

- (d) (5) Promoter or Pretreatment Wash Primer to a Motor Vehicle, Mobile Equipment, or Associated Parts and Components of a Motor Vehicle or Mobile Equipment, that complies with the PW-MIR limit in Table 3.

Table 3 - Alternative PW-MIR VOC Content Limits and Effective Dates

	PW-MIR VOC Limits (g O₃/g VOC)	Effective Date
Adhesion Promoters	2.00	1/1/2028
Pretreatment Wash Primers	1.80	1/1/2028

- (6) **Sell-Through and Use-Through Provision for Alternative Color Coating VOC Content Limit**
 Any Color Coating that is manufactured prior to January 1, 2030, supplied in a half-pint or smaller container to comply with the alternative VOC limit pursuant to paragraph (d)(4), and that has a VOC content above 250 g/L, may be sold, supplied, or offered for sale until January 1, 2030, and used until January 1, 2033.
- (7) **Sell-Through and Use-Through Provision for VOC Content Limit Reductions**
 Any Automotive Coating that is manufactured prior to the effective date of the applicable VOC content limit specified in Table 1, and that has a VOC content above that limit (but not above the limit in effect on the date of manufacture), may be sold, supplied, or offered for sale for up to 24 months after the applicable effective date and used up to 36 months after the applicable effective date.
- (8) **Sell-Through and Use-Through Provision for Reducers or Thinners**
 Any Reducer or Thinner that is manufactured prior to January 1, 2030, may be sold, supplied, or offered for sale until January 1, 2032, and used until January 1, 2033.
- (9) **Transfer Efficiency**
 A person shall apply Automotive Coatings to any Motor Vehicle, Mobile Equipment, or any Associated Parts and Components to a Motor Vehicle or Mobile Equipment using properly operating equipment, operated according to procedures recommended by the manufacturer, and in compliance with applicable permit conditions, if any, by one of the following methods:

- (d) (9) (A) Electrostatic Spray Application;
- (B) HVLP spray;
- (C) Brush, dip, or roller; or
- (D) Any such other Automotive Coating application methods as demonstrated, in accordance with the provisions of paragraph (i)(6), to be capable of achieving equivalent or better Transfer Efficiency than the Automotive Coating application method listed in subparagraph (d)(9)(B), provided written approval is obtained from the Executive Officer prior to use.
- (10) Solvent Cleaning, Storage and Disposal of VOC-Containing Materials
Solvent Cleaning of application equipment, parts, products, tools, machinery, equipment, general work areas, and the storage and disposal of VOC-containing materials used in cleaning operations shall be carried out pursuant to Rule 1171.

(e) Alternative Compliance Options

(1) Emission Control System

A person may comply with the provisions of paragraph (d)(1) by using an approved Emission Control System, consisting of collection and control devices, provided such Emission Control System is approved pursuant to Rule 203 – Permit to Operate, in writing, by the Executive Officer for reducing VOC emissions. The Executive Officer shall approve such Emission Control System only if the VOC emissions resulting from the use of non-compliant Automotive Coatings will be reduced to a level equivalent to or lower than that would have been achieved by compliance with the terms of paragraph (d)(1). The required efficiency of an Emission Control System at which an equivalent or greater level of VOC emission reduction will be achieved shall be calculated by the following equation:

$$C.E. = \left[1 - \left\{ \frac{(VOC_{LW_c})}{(VOC_{LW_n,Max})} \times \frac{1 - (VOC_{LW_n,Max}/D_{n,Max})}{1 - (VOC_{LW_c}/D_c)} \right\} \right] \times 100$$

Where:

C.E. = Control Efficiency, percent

- (e) (1) VOC_{LWc} = Regulatory VOC Limit, less water and less Exempt Compounds, pursuant to paragraph (d)(1).
- $VOC_{LWn,Max}$ = Maximum Regulatory VOC content of non-compliant Automotive Coating used in conjunction with a control device, less water and Exempt Compounds.
- $D_{n,Max}$ = Density of VOC solvent, reducer, or thinner contained in the non-compliant Automotive Coating containing the maximum VOC.
- D_c = Density of corresponding VOC solvent, reducer, or thinner used in the compliant Automotive Coating system = 880 g/L.

(2) Alternative Emission Control Plan

A person may comply with the provisions of paragraph (d)(1) by means of an Alternative Emissions Control Plan, pursuant to Rule 108 – Alternative Emissions Control Plans.

(f) Prohibition of Possession, Specification, Sale or Use

(1) No person that applies Automotive Coatings subject to this rule shall possess any Automotive Coating that does not comply with the requirements of paragraph (d)(1) when mixed with any Automotive Coating Component (as applied), unless one or more of the following conditions apply:

- (A) The Automotive Coating is for use at a facility that utilizes an approved Emission Control System pursuant to paragraph (e)(1) and the Coating complies with the limits specified in permit conditions;
- (B) The Automotive Coating is for use at a facility that operates in compliance with an approved Alternative Emissions Control Plan pursuant to paragraph (e)(2), and the Automotive Coating is specified in the plan;
- (C) The Automotive Coating is for use at a training center and the Automotive Coating is used for educational purposes, provided that the VOC emissions from all Automotive Coatings not complying

- (f) (1) (C) with the VOC limits of paragraph (d)(1) do not exceed 12 pounds per day; or
- (D) The Automotive Coating is for use at a prototype Motor Vehicle manufacturing facility and the Automotive Coating is supplied by an Assembly-Line Motor Vehicle manufacturer specifically for use in the refinishing of a prototype Motor Vehicle, provided that the VOC emissions from all Automotive Coatings not complying with the VOC limits of paragraph (d)(1) exceed neither 21 pounds per day nor 930 pounds in any one calendar year.
- (2) No person shall solicit from, specify, or require any other person to use in the South Coast AQMD any Automotive Coating that, when applied as supplied or thinned or reduced according to the manufacturer's recommendation for application, does not comply with the:
 - (A) Applicable VOC limits required by paragraph (d)(1) for the specific application, unless:
 - (i) The Automotive Coating is located at a facility that utilizes an approved Emission Control System pursuant to paragraph (e)(1), and the Automotive Coating complies with the limits specified in permit conditions;
 - (ii) The Automotive Coating is located at a facility that operates in compliance with an approved Alternative Emissions Control Plan pursuant to paragraph (e)(2), and the Automotive Coating is specified in the plan;
 - (iii) The Automotive Coating is specifically exempt pursuant to subdivision (k) of this rule; or
 - (iv) The Automotive Coating complies with the alternative PW-MIR VOC limits in Table 3; or
 - (B) Requirements of paragraph (f)(7).
- (3) No person shall supply, sell, offer for sale, market, blend, package, repackage or distribute any Automotive Coating for use within the South Coast AQMD subject to the provisions in this rule that, when applied as supplied or thinned or reduced according to the manufacturer's recommendation for application, does not comply with the:

- (f) (3) (A) Applicable VOC limits required by paragraph (d)(1) for the specific application, unless:
 - (i) The Automotive Coating is for use at a facility that utilizes an approved Emission Control System pursuant to paragraph(e)(1), and the Coating complies with the limits specified in permit conditions;
 - (ii) The Automotive Coating is for use at a facility that operates in accordance with an approved Alternative Emissions Control Plan pursuant to paragraph(e)(2), and the Automotive Coating is specified in the plan;
 - (iii) The Automotive Coating is specifically exempt pursuant to subdivision (k) of this rule; or
 - (iv) The Automotive Coating complies with the alternative PW-MIR VOC limits in Table 3; or
- (B) Requirements of paragraph (f)(7).
- (4) No person shall solicit from, specify, require, offer for sale, sell, or distribute to any other person for use in the South Coast AQMD any Automotive Coating application equipment that does not comply with the requirements of paragraph (d)(9).
- (5) No person shall offer for sale, sell, supply, market, or distribute an HVLP spray gun for use within the South Coast AQMD unless the person provides accurate information to the spray gun recipient regarding the maximum inlet air pressure to the spray gun that would result in a maximum air pressure of 10 psig air pressure, measured dynamically at the center of the air cap and at the air horns, based on:
 - (A) The manufacturer's published technical material on the design of the spray application equipment;
 - (B) A demonstration of the operation of the spray application equipment using an air pressure tip gauge from the manufacturer of the gun; and
 - (C) The information shall either be permanently marked on the gun, or provided on the company's letterhead or in the form of technical literature that clearly identifies the spray gun manufacturer, the seller, or the distributor.

- (f) (6) The requirements of paragraphs (f)(1) through (f)(4) shall apply to all written or oral agreements executed and entered into under the terms of which an Automotive Coating or an Automotive Coating application equipment shall be used at any location within the South Coast AQMD.
- (7) Carcinogenic Materials and Exempt Compounds
 No person shall manufacture, supply, sell, offer for sale, market, blend, distribute, package, or repackage a Regulated Product for use within the South Coast AQMD, or apply any Regulated Product within the South Coast AQMD, that contains any of the following chemicals in concentrations greater than the limits indicated:
 - (A) 1.0 ppm of cadmium;
 - (B) 5.0 ppm of hexavalent chromium;
 - (C) 0.01 percent by weight of Group II Exempt Compounds, excluding volatile methylated siloxanes (VMS);
 - (D) 0.1 percent by weight of any VMS;
 - (E) 0.01 percent by weight of pCBtF and t-BAc for Regulated Products subject to the applicable Phase I or Phase II VOC limits; or
 - (F) 0.01 percent by weight of pCBtF and t-BAc pursuant to the applicable effective dates in Table 4.

Table 4: pCBtF and t-BAc Prohibition Timeline

Category	Prohibition Effective Date	Sell-through End Date	Use-through End Date
Color Coatings	November 1, 2025	November 1, 2026	January 1, 2028
All Other Coating Categories	May 1, 2025	May 1, 2026	July 1, 2027

- (g) Recordkeeping Requirements
 - (1) Recordkeeping for VOC Emissions
 Records of Regulated Product usage shall be maintained pursuant to Rule 109 – Recordkeeping for Volatile Organic Compound Emissions, and shall at a minimum include the following information:
 - (A) Regulated Product name and manufacturer;
 - (B) Application method as recommended;
 - (C) Automotive Coating category and mix ratio specific to the Automotive Coating;

- (g) (1) (D) Actual VOC and Regulatory VOC content of the Regulated Product;
 - (E) Documentation such as manufacturer specification sheets, material safety data sheets, technical data sheets, or any other air quality data sheets that demonstrate the material is intended for use as an Automotive Coating or Automotive Coating Component;
 - (F) Current manufacturer specification sheets, material safety data sheets, technical data sheets, or air quality data sheets, that list the Actual VOC and Regulatory VOC content, for each Ready-to-Spray Automotive Coating (based on the manufacturer’s stated mix ratio) and Automotive Coating Components; and
 - (G) Purchase records identifying the Automotive Coating category, name, and the total volume of all Regulated Products used.
- (2) Recordkeeping Requirements for Emission Control System
- Any person using an Emission Control System shall maintain daily records of key system operating parameters that will demonstrate continuous operation and compliance of the Emission Control System during periods of VOC emission-producing activities. “Key system operating parameters” are those parameters necessary to ensure or document compliance with paragraph(e)(1), including, but not limited to, temperatures, pressure drops, and air flow rates.
- (3) Recordkeeping Requirements for Coatings complying with paragraph (f)(3)
- Any person that supplies, sells, offers for sale, markets, blends, packages, repackages or distributes Automotive Coatings that exceed the VOC limits in paragraph (d)(1) by complying with paragraph (f)(3) shall keep the following records for at least five years and make them available to the Executive Officer upon request:
- (A) Regulated Product name and manufacturer;
 - (B) Application method as recommended;
 - (C) Automotive Coating category and mix ratio specific to the Automotive Coating;
 - (D) Actual VOC and Regulatory VOC content of the Regulated Product;
 - (E) Documentation such as manufacturer specification sheets, material safety data sheets, technical data sheets, or any other air quality data

- (g) (3) (E) sheets that demonstrate that the material is intended for use as an Automotive Coating or Automotive Coating Component;
- (F) Current manufacturer specification sheets, material safety data sheets, technical data sheets, or air quality data sheets, that list the Actual VOC and Regulatory VOC content, for each Regulated Product;
- (G) Purchase records identifying the Automotive Coating category, name, and the total volume of all Regulated Products; and
- (H) For sale to an end-user:
 - (i) The name and address of the person receiving the Automotive Coating;
 - (ii) An acknowledgement warranting that the sale to an end-user will comply with paragraph (f)(3); and
 - (iii) If the Coating is for use outside the South Coast AQMD, acknowledgement by the purchaser that this statement is correct.

- (h) Administrative and Reporting Requirements for Automotive Coating Manufacturers
 - (1) Compliance Statement Requirement

For each individual Automotive Coating, Automotive Coating Component, and Ready-to-Spray mixture (based on the manufacturer's stated mix ratio), the manufacturer shall include the following information on a product data sheet, or an equivalent medium:

 - (A) The Actual VOC and Regulatory VOC content for Automotive Coatings (in grams per liter);
 - (B) The weight percentage of volatiles, water, and Exempt Compounds; and
 - (C) The density of the material (in grams per liter).
 - (2) Labeling Requirements for Coating Manufacturers

The manufacturer of Regulated Products, with the exception of Reducers or Thinners, shall include on all containers:

 - (A) The applicable Automotive Coating category;

- (h) (2) (B) The Actual VOC and Regulatory VOC content, as supplied (in grams of VOC per liter of material and in grams of VOC per liter of material, less water and Exempt Compounds);
- (C) The PW-MIR VOC content of an Adhesion Promoter or Pretreatment Wash Primer if the manufacturer of an Adhesion Promoter or Pretreatment Wash Primer elects to comply with PW-MIR VOC limits in paragraph (d)(5); and
- (D) On and after November 1, 2025, all Regulated Products shall display the date of manufacture of the Automotive Coating or a code indicating the date of manufacture. The manufacturers shall file an explanation of each code with the Executive Officer.
- (3) Labeling Requirements for Reducers and Thinners
The manufacturer of Reducers and Thinners subject to this rule shall include on all containers:
 - (A) The Actual VOC for solvents, as supplied (in grams of VOC per liter of material); and
 - (B) On and after January 1, 2030, the PW-MIR.
- (4) General Quantity and Emission Report (QER)
The manufacturer or private labeler of Regulated Products shall submit to the South Coast AQMD a QER for Regulated Product sales into or within the South Coast AQMD according to the schedule in Table 5. The QER for a manufacturer or private labeler of Regulated Products shall include the following information:
 - (A) Product manufacturer (as listed on the label);
 - (B) Product name and code;
 - (C) Applicable Rule 1151 category;
 - (D) Actual VOC, Regulatory VOC content, and PW-MIR, if applicable;
 - (E) Whether the product is waterborne or solvent-based;
 - (F) Total annual volume sold into or within the South Coast AQMD, including products sold through distribution centers located within or outside the South Coast AQMD, reported in gallons for all container sizes for the years listed in Table 5;
 - (G) For any Regulated Product with VOC content higher than the applicable VOC content limits in paragraph (d)(1), indicate whether the product has been sold under any of the following provisions:

- (h) (4) (G) (i) Sell-through provision pursuant to paragraphs (d)(6), (d)(7), and (d)(8);
 - (ii) Exempted pursuant to subdivision (k); or
 - (iii) Complying with subdivision (e) and
- (H) Multicomponent Automotive Coatings shall be reported as the Ready-to-Spray Automotive Coating, including the maximum Actual VOC content, maximum Regulatory VOC content, and sales volume.
- (5) QER Reporting Timeline

A manufacturer and Private Labeler of Regulated Products shall submit the QER required pursuant to paragraph (h)(4) according to the reporting timeline in Table 5:

Table 5 – QER Reporting Timeline

Reporting Deadlines		Reported Years
Manufacturers & Private Labelers		
September 1, 2030		2028, 2029
September 1, 2035		2033, 2034
September 1, 2040		2038, 2039

- (i) Test Methods
 - (1) VOC Content of Automotive Coatings

The VOC content of Automotive Coatings shall be determined by:

 - (A) United States Environmental Protection Agency (U.S. EPA) Reference Test Method 24 – Determination of Volatile Matter Content, Water Content, Volume Solids and Weight Solids of Surface Coatings, Code of Federal Regulations, Title 40 Part 60, Appendix A with the Exempt Compounds’ content determined by South Coast AQMD Test Method 303 – Determination of Exempt Compounds; or
 - (B) South Coast AQMD Test Method 304 – Determination of Volatile Organic Compounds (VOCs) in Various Materials.
 - (2) Exempt Perfluorocarbon Compounds

The following classes of compounds shall be analyzed as Exempt Compounds for compliance with paragraph (d)(1), only at such time as

- (i) (2) manufacturers specify which individual compounds are used in the formulation of the Automotive Coating and identify the test methods, which have been approved by the U.S. EPA, California Air Resources Board (CARB) and the South Coast AQMD prior to such analysis, that can be used to quantify the amounts of each exempt compound:
 - (A) Cyclic, branched, or linear, completely fluorinated alkanes;
 - (B) Cyclic, branched, or linear, completely fluorinated ethers with no unsaturations;
 - (C) Cyclic, branched, or linear, completely fluorinated tertiary amines with no unsaturations; and
 - (D) Sulfur-containing perfluorocarbons with no unsaturations and with sulfur bonds only to carbon and fluorine.
- (3) Determination of Metallic Particles in Metallic Color Coatings
The metal content of metallic Color Coatings shall be determined by South Coast AQMD Test Method 311 – Determination of Percent Metal in Metallic Coatings by Spectrographic Method.
- (4) Acid Content in Pretreatment Automotive Coatings
The acid content of Pretreatment Wash Primers shall be determined by ASTM Test Method D1613 – Acidity in Volatile Solvents and Chemical Intermediates Used in Paint, Varnish, Lacquer, and Related Products.
- (5) Gloss Determination
The gloss of Automotive Coatings shall be determined by ASTM Test Method D523.
- (6) Transfer Efficiency
The Transfer Efficiency of alternative Automotive Coating application methods, as defined by paragraph (c)(39), shall be determined in accordance with the most current versions of the South Coast AQMD method “Spray Equipment Transfer Efficiency Test Procedure for Equipment User” and South Coast AQMD “Guidelines for Demonstrating Equivalency With District Approved Transfer Efficiency Spray Gun.”
- (7) Determination of Efficiency of Emission Control Systems
A person that elects to comply with the provision of paragraph (d)(1) using an Emission Control System as specified in paragraph (e)(1) shall:
 - (A) Determine the efficiency of the collection device in the Emission Control System by using:

- (i) (7) (A) (i) South Coast AQMD’s “Protocol for Determination of Volatile Organic Compounds (VOC) Capture Efficiency;”
or
- (ii) Any other method approved by the U.S. EPA, CARB, and the South Coast AQMD Executive Officer.
- (B) Determine the efficiency and the VOC content in the Emission Control System exhaust gases, measured and calculated as carbon by:
 - (i) U. S. EPA Test Method 25 - Determination of Total Gaseous Nonmethane Organic Emissions as Carbon;
 - (ii) U. S. EPA Test Method 25A - Determination of Total Gaseous Organic Concentration Using a Flame Ionization Analyzer;
 - (iii) South Coast AQMD Method 25.1 - Determination of Total Gaseous Non-Methane Organic Emissions as Carbon; or
 - (iv) South Coast AQMD Method 25.3 - Determination of Low Concentration Non-Methane Non-Ethane Organic Compound Emissions from Clean Fueled Combustion Sources.
- (C) Determine emissions of Exempt Compounds by:
 - (i) U.S. EPA Test Method 18 – Volatile Organic Compounds by Gas Chromatography; or
 - (ii) CARB Method 422 – Determination of Volatile Organic Compounds in Emissions from Stationary Sources.
- (8) Equivalent Test Methods
Other test methods determined to be equivalent by the Executive Officer, CARB, and the U.S. EPA, and approved in writing by the Executive Officer may also be used.
- (9) Multiple Test Methods
When more than one test method or set of test methods are specified for any testing, a violation of any requirement of this rule established by any one of the specified test methods or set of test methods shall constitute a violation of the rule.

- (j) Rule 442 Applicability
Any Automotive Coating, Automotive Coating operation, or facility that is exempt pursuant to subdivision (k) from all or a portion of the VOC limits of subdivision (d) shall comply with the provisions of Rule 442 – Usage of Solvents.

- (k) Exemptions
 - (1) The provision of this rule shall not apply to:
 - (A) Any Automotive Coating applied to Motor Vehicles or Mobile Equipment, or their Associated Parts and Components, during manufacture on an Assembly Line that is subject to a VOC limit in Rule 1115 - Motor Vehicle Assembly Line Coating Operations;
 - (B) Any Automotive Coating that is expressly and exclusively offered for sale, sold, or manufactured for use outside of the South Coast AQMD or that is for shipment to other manufacturers for reformulation or repackaging;
 - (C) Any Aerosol Coating Product; and
 - (D) Any Automotive Coating that is supplied, sold, offered for sale, marketed, manufactured, blended, packaged or repackaged for use within the South Coast AQMD in 0.5 fluid ounces or smaller containers and is applied by brush or air brush to repair minor surface damage and imperfections for touch-up operations.
 - (2) Automotive Coatings applied for educational purposes at Automotive Coating training centers, that are owned and operated by Automotive Coating manufacturers, provided that the VOC emissions emitted at the Automotive Coating training center from all Automotive Coatings not complying with the VOC limits of paragraph (d)(1) do not exceed 12 pounds per day shall be exempt from:
 - (A) The requirements of paragraph (d)(1); and
 - (B) The prohibition of pCBtF and t-BAc in subparagraphs (f)(7)(E) and (f)(7)(F) until November 1, 2034.
 - (3) The requirements of paragraph (d)(1) shall not apply to Automotive Coatings supplied by an assembly-line Motor Vehicle manufacturer for use by a prototype Motor Vehicle manufacturing facility in the finishing of a prototype Motor Vehicle, provided that the VOC emissions at the prototype Motor Vehicle manufacturing facility from all Automotive Coatings not

- (k) (3) complying with the VOC limits of paragraph (d)(1) exceed neither 21 pounds per day nor 930 pounds in any one calendar year.
- (4) The requirements of paragraph (d)(9) shall not apply to Automotive Graphic Arts Operations, Truck Bed Liner Coatings, or Underbody Coatings.
- (5) The labeling requirements of paragraph (h)(2) shall not apply to Regulated Products formulated to comply with the Phase I VOC content limits until November 1, 2025.