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(Amended September 5, 2014)([Amended November 1, 2024](#))

**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~~[Volatile Organic Compound](#) (VOC) emissions, toxic air contaminants, stratospheric ozone-depleting compounds, and global-warming compound emissions from ~~automotive coating~~[Automotive Coating](#) applications performed on ~~motor vehicles~~[Motor Vehicles](#), ~~mobile equipment~~[Mobile Equipment](#), and ~~associated parts and components~~[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](#), [Automotive Coating Component](#), or associated solvent for use within the ~~District~~[South Coast AQMD](#), as well as any person who uses, applies, or solicits the use or application of any ~~automotive coating~~[Automotive Coating](#), [Automotive Coating Component](#), or associated solvent within the ~~District~~[South Coast AQMD](#).

(c) Definitions

~~For the purpose of this rule, the following definitions shall apply:~~

- (1) ADHESION PROMOTER means any ~~automotive coating~~ [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~~ [Automotive Coatings](#), ~~and on which, a subsequent automotive coating is applied.~~
- (2) AEROSOL COATING PRODUCT means a pressurized ~~coating~~[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.
- (4) ASSOCIATED PARTS AND COMPONENTS means structures, devices, pieces, modules, sections, assemblies, subassemblies, or elements of any ~~motor vehicle~~ Motor Vehicle or ~~mobile equipment~~ Mobile Equipment that are designed to be a part of any ~~motor vehicle~~ Motor Vehicle or ~~mobile equipment~~ Mobile Equipment but ~~which~~ that are not attached to any ~~motor vehicle~~ Motor Vehicle or ~~mobile equipment~~ Mobile Equipment at the time of the application of an ~~automotive coating~~ Automotive Coating to such structure, device, piece, module, section, assembly, subassembly, or element. -Associated ~~parts and components~~ Parts and Components do not include circuit boards.
- (5) AUTOMOTIVE COATING means any ~~coating~~ Coating used or recommended for use in ~~motor vehicles~~ Motor Vehicles, ~~mobile equipment~~ Mobile Equipment, or ~~associated parts and components~~ 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~~ Automotive Coating on the container or in product literature constitutes a recommendation for use in ~~motor vehicle~~ Motor Vehicle, ~~mobile equipment~~ Mobile Equipment, and ~~associated parts and components~~ Associated Parts and Components refinishing.
- (6) AUTOMOTIVE COATING COMPONENT means any portion of a ~~coating~~ Coating, including, but not limited to, a ~~reducer or thinner~~ Reducer or Thinner, toner, hardener, ~~and or~~ and or additive, ~~which~~ that is used, or recommended for use, in an ~~automotive coating~~ Automotive Coating, ~~or which is used in an automotive coating~~. The raw materials used to produce the components are not considered ~~automotive coating components~~ 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 vehicle~~Motor Vehicle, ~~or mobile equipment~~Mobile Equipment, or ~~their associated parts and components~~Associated Parts and Components are coated, including autobody collision repair shops. ~~Automotive refinishing facility~~Automotive Refinishing Facility does not include the original equipment manufacturing plant where the ~~motor vehicle~~Motor Vehicle or ~~mobile equipment~~Mobile Equipment is completely assembled.
- (9) CLEAR COATING means any ~~automotive coating~~Automotive Coating that is formulated with materials that do not impart color and is specifically labeled and formulated for application over a ~~color coating~~Color Coating or a previous layer of a ~~clear coating~~Clear Coating.
- (10) COATING means a material ~~which that~~ is applied to a surface and forms a film in order to beautify, preserve, repair, or protect such a surface.
- (11) COLOR COATING means any pigmented ~~automotive coating~~Automotive Coating, excluding automotive ~~adhesion promoters~~Adhesion Promoters, ~~and primers~~Primers, ~~and multi-color coatings~~, that requires a subsequent ~~clear coating~~Clear Coating, and ~~which that~~ is applied over a ~~primer~~Primer, ~~adhesion promoter~~Adhesion Promoter, or a previous layer of a ~~color coating~~Color Coating. ~~Color coatings~~Coatings include metallic ~~and~~ iridescent color coatings, which mean Automotive Coatings that contains 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~~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~~Automotive Coating operations.
- (13)(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).

~~(14)~~(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).

~~(15)~~(17) GRAMS OF VOC PER LITER OF COATING LESS WATER AND LESS EXEMPT COMPOUNDS, ~~OR~~ (REGULATORY VOC), is the weight of VOC per combined volume of VOC and ~~coating~~Coating solids and shall be calculated by the following equation:

Grams of VOC per Liter of Coating, Less

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

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

~~(16)~~(18) GRAMS OF VOC PER LITER OF MATERIAL, ~~OR~~ (ACTUAL VOC), is the weight of VOC per volume of material and shall be calculated by the following equation:

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

- Where:
- W_{sv} = weight of volatile compounds in grams (includes water, Exempt Compounds, and VOCs)
 - W_w = weight of water in grams

$W_{es_{ex}}$ = weight of ~~exempt compounds~~ [Exempt Compounds](#)
in grams

V_m = volume of material in liters

- ~~(17)~~(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.
- ~~(18)~~ ~~METALLIC/IRIDESCENT COLOR COATING~~ means any automotive coating that contains 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.
- (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.
- ~~(19)~~(22) [MOBILE EQUIPMENT](#) means any device that may [either](#) be drawn ~~and~~ 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.
- ~~(20)~~(23) [MOTOR VEHICLE](#) means any self-propelled vehicle, including, but not limited to, motorcycles, passenger cars, light-duty trucks ~~and vans~~, medium-duty and heavy-duty vehicles (as defined in Section 1900, Title 13, of the California ~~Administrative Code of Regulations~~), ~~Additional examples include, but are not limited to,~~ [vans](#), buses, golf carts, tanks, and armored personnel carriers.
- ~~(21)~~ ~~MULTI-COLOR COATING~~ means any automotive 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.~~

~~(22)~~(24) PRETREATMENT COATING—WASH PRIMER means any ~~automotive coating~~Automotive Coating that contains a minimum of ~~one-half (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~~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, ~~and on which afor the purpose of applying a~~ subsequent ~~coating—Automotive Coating is applied.~~ Primers may be pigmented and include ~~weld-through primers~~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.

~~(23)~~(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.

(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,

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

where,

$$MIR = \text{ingredient MIR}; \text{ and}$$

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.
- ~~(24)~~(33) SINGLE-STAGE COATING means any pigmented ~~automotive coating~~Automotive Coating, (excluding automotive ~~adhesion promoters~~Adhesion Promoters, and ~~primers~~Primers—and—~~multi-color coatings~~), specifically labeled and formulated for application without a subsequent ~~clear coating~~Clear Coating and that ~~are~~may be applied over an ~~adhesion promoter~~Adhesion Promoter, a ~~primer~~Primer, or a ~~color coating~~Color Coating. -Single-stage ~~coatings~~Coatings include single-stage ~~metallic/iridescent coatings~~metallic color coatings.
- ~~(25)~~(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).
- ~~(26)~~(36) SPOT REPAIR means repair of an area on a ~~motor vehicle~~Motor Vehicle, ~~mobile equipment~~Mobile Equipment, or ~~associated parts or components~~ Associated Parts and Components of ~~less than~~ one square foot (929 square centimeters) or less.
- ~~(27)~~(37) TEMPORARY PROTECTIVE COATING means any ~~automotive coating~~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.
- ~~(28)~~(39) TRANSFER EFFICIENCY means the amount of ~~coating~~Coating solids adhering to the object being coated divided by the total amount of

~~automotive coating~~[Automotive Coating](#) solids sprayed, expressed as a percentage.

~~(29)~~[\(40\)](#) TRUCK BED LINER COATING means any ~~automotive coating~~[Automotive Coating](#), excluding color, ~~multi-color~~, and ~~single-stage coatings~~[Single-stage Coatings](#), specifically labeled and formulated for application to a truck bed to protect it from surface abrasion.

~~(30)~~[\(41\)](#) UNDERBODY COATING means any ~~automotive coating~~[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~~[Motor Vehicle](#).

~~(31)~~[\(42\)](#) UNIFORM FINISHING COATING means any ~~automotive coating~~[Automotive Coating](#) specifically labeled and formulated for application to the area around a ~~spot repair~~[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~~[Coating](#).

~~(32)~~[\(43\)](#) VOLATILE ORGANIC COMPOUND (VOC) is as defined in Rule 102-Definition of Terms. ~~For the purpose of this rule, tertiary butyl acetate (TBAC) is not a VOC when used in automotive coatings other than color coatings and clear coatings.~~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.

~~(33)~~—The Executive Officer shall conduct a technical assessment on the use of TBAC as a non-VOC by December 31, 2016. In conducting the technical assessment, the Executive Officer shall consider all information available to the SCAQMD on TBAC including, toxicity, carcinogenic and health risk assessment studies. The Executive Office shall report to the Governing Board as to the appropriateness of maintaining TBAC as a non-VOC.

~~(34)~~[\(44\)](#) WELD-THROUGH PRIMER means an ~~automotive coating~~[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~~[Automotive Coating](#) to a ~~motor vehicle~~[Motor Vehicle](#), ~~mobile equipment~~[Mobile Equipment](#), or

~~associated parts or components~~ Associated Parts and Components of a ~~motor vehicle~~ Motor Vehicle or ~~mobile equipment~~ Mobile Equipment, that contains VOC in excess of the applicable limits specified in ~~the Table 1 - Table of Standards~~ Regulatory VOC Content Limits for Automotive Coatings and Effective Dates (Table 1) ~~below~~. -Compliance with the applicable VOC content limits shall be based on VOC content, including any material added to the original ~~automotive coating~~ Automotive Coating supplied by the manufacturer, as applied, less water and ~~exempt compounds~~ 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 ~~tert-~~ Butyl Acetate (t-BAc).

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

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

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.

(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 repack 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

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

VOC CONTENT LIMITS Grams per Liter of Coating, Less Water and Less Exempt Compounds		
AUTOMOTIVE COATING CATEGORIES	Current Limit	
	g/L	Lb/Gal
Adhesion Promoter	540	4.5
Clear Coating	250	2.1
Color Coating	420	3.5
Multi-Color Coating	680	5.7
Pretreatment Coating	660	5.5
Primer	250	2.1
Single-Stage Coating	340	2.8
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

(2)(3) Most Restrictive VOC Limit 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 ~~on the container of any automotive coating, or any label or sticker affixed to the container, or in any sales, advertising, or technical literature that~~ indicates that the automotive coating Automotive Coating may be used as, or is suitable for use as, ~~meets the definition of or is recommended for use for more than one of the automotive coating Automotive Coating~~ categories listed in ~~paragraph (d)(1)~~ Table 1, then the lowest applicable VOC content limit shall apply.

~~(3) Alternative Compliance~~

~~(A) 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 emissions of VOC. 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 which would have been achieved by the 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:~~

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

~~Where:~~

- ~~C.E. = Control Efficiency, percent~~
- ~~VOC_{LW_e} = VOC Limit of Rule 1151, less water and less exempt compounds, pursuant to paragraph (d)(1).~~
- ~~VOC_{LW_{n,Max}} = Maximum 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_e = Density of corresponding VOC solvent, reducer, or thinner used in the compliant automotive coating system = 880 g/L.~~

~~(B) 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.~~

~~(4) — Exempt Compounds~~

~~A person shall not manufacture, sell, offer for sale, distribute for use in the District, or apply any automotive coating which contains any Group II Exempt Compounds as defined in Rule 102.~~

~~(5) — Carcinogenic Materials~~

~~A person shall not manufacture automotive coatings for use in the SCAQMD in which cadmium or hexavalent chromium was introduced as a pigment or as an agent to impart any property or characteristic to the automotive coatings during manufacturing, distribution, or use of the applicable automotive coatings.~~

(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 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

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

(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.

~~(6)~~(9) Transfer Efficiency

~~(A)~~—A person shall ~~not apply automotive coatings~~ Automotive Coatings to any ~~motor vehicle~~ Motor Vehicle, ~~mobile equipment~~ Mobile Equipment, or any ~~associated parts or components~~ Associated Parts and Components to a ~~motor vehicle~~ Motor Vehicle or ~~mobile equipment~~ Mobile Equipment using properly operating equipment, operated according to procedures recommended by the manufacturer, and in compliance with applicable permit conditions, if any, ~~except by the use of~~ one of the following methods:

~~(i)(A) electrostatic application~~ Electrostatic Spray Application; ~~or~~

~~(ii)(B) high volume, low pressure (HVLP) spray~~; ~~or~~

~~(iii)(C)~~ bBrush, dip, or roller; or

~~(iv)~~—Spray gun application, provided the owner or operator demonstrates that the spray gun meets the HVLP definition in paragraph (c)(17) in design and use. A satisfactory demonstration must be based on the manufacturer's published technical material on the design of the spray gun and by a demonstration of the operation of the spray gun using an air pressure tip gauge from the manufacturer of the spray gun.

~~(v)~~(D) Any such other ~~automotive coating~~ Automotive Coating application methods as demonstrated, in accordance with the provisions of ~~subparagraph (h)(1)(F)(i)(6)~~, to be capable of achieving equivalent or better ~~transfer efficiency~~ Transfer Efficiency than the ~~automotive coating~~ Automotive Coating application method listed in ~~clause (d)(6)(A)(ii)~~ subparagraph (d)(9)(B), provided written approval is obtained from the Executive Officer prior to use.

~~(B)~~—A person shall not apply any automotive coating by any of the methods listed in subparagraph (d)(6)(A) unless the automotive coating is applied with properly operating equipment, operated according to procedures recommended by the manufacturer and in compliance with applicable permit conditions, if any.

~~(7)~~(10) Solvent Cleaning, Storage and Disposal of VOC-Containing Materials;
Solvent ~~cleaning~~ 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 ~~SCAQMD~~-Rule 1171—~~Solvent Cleaning Operations~~.

(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:

<u>C.E.</u>	≡	<u>Control Efficiency, percent</u>
<u>VOC_{LW_c}</u>	≡	<u>Regulatory VOC Limit, less water and less Exempt Compounds, pursuant to paragraph (d)(1).</u>
<u>VOC_{LW_{n,Max}}</u>	≡	<u>Maximum Regulatory VOC content of non-compliant Automotive Coating used in conjunction with a control device, less water and Exempt Compounds.</u>
<u>D_{n,Max}</u>	≡	<u>Density of VOC solvent, reducer, or thinner contained in the non-compliant Automotive Coating containing the maximum VOC.</u>
<u>D_c</u>	≡	<u>Density of corresponding VOC solvent, reducer, or thinner used in the compliant Automotive Coating system = 880 g/L.</u>

(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.

(e)(f) Prohibition of Possession, Specification, ~~and~~ Sale or Use

- (1) ~~For the purpose of this rule, no~~ No person that applies ~~automotive coatings~~ Automotive Coatings subject to this rule shall possess any ~~automotive coating~~ Automotive Coating that ~~does is~~ is not ~~in compliance~~ compliance 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~~Automotive Coating is for use at a facility that utilizes an approved ~~emission control device~~Emission Control System pursuant to ~~subparagraph (d)(3)(A)(e)(1)~~ and the ~~coating~~Coating ~~meets~~ complies with the limits specified in permit conditions;
- (B) The ~~automotive coating~~Automotive Coating is for use at a facility that operates in compliance with an approved Alternative Emissions Control Plan pursuant to ~~subparagraph (d)(3)(B)(e)(2)~~, and the ~~automotive coating~~Automotive Coating is specified in the plan;
- (C) The ~~automotive coating~~Automotive Coating is for use at a training center and the ~~automotive coating~~Automotive Coating is used for educational purposes, provided that the VOC emissions from all automotive coatings ~~meeting~~ complying with the VOC limits of paragraph (d)(1) do not exceed ~~twelve (12)~~ pounds per day; or;
- (D) The ~~automotive coating~~Automotive Coating is for use at a prototype ~~motor vehicle~~Motor Vehicle manufacturing facility and the ~~automotive coating~~Automotive Coating is supplied by an ~~assembly-line~~Assembly-Line ~~motor vehicle~~Motor Vehicle manufacturer specifically for use in the refinishing of a prototype ~~motor vehicle~~Motor Vehicle, provided that the VOC emissions from all ~~automotive coatings~~Automotive Coatings ~~meeting~~ complying with the VOC limits of paragraph (d)(1) ~~do not exceed~~ neither ~~twenty one (21)~~ pounds per day and nor 930 pounds in any one calendar year.
- (2) ~~For the purpose of this rule, no~~ No person shall solicit from, specify, or require any other person to use in the ~~District South Coast AQMD~~ any ~~automotive coating~~Automotive Coating ~~which~~that, when applied as supplied or thinned or reduced according to the manufacturer's recommendation for application, does not ~~meet~~ comply with the:
- (A) Applicable VOC limits required by paragraph (d)(1) for the specific application, unless:
- (i) The ~~automotive coating~~Automotive Coating is located at a facility that utilizes an approved ~~emission control device~~Emission Control System pursuant to ~~subparagraph (d)(3)(A)(e)(1)~~, and the ~~automotive coating~~Automotive

- Coating meets/complies with the limits specified in permit conditions; ~~or,~~
- (ii) The ~~automotive coating~~Automotive Coating is located at a facility that operates in compliance with an approved Alternative Emissions Control Plan pursuant to ~~subparagraph (d)(3)(B)(e)(2),~~ and the ~~automotive coating~~Automotive Coating is specified in the plan; ~~or~~
- (iii) The ~~automotive coating~~Automotive Coating is specifically exempt pursuant to subdivision ~~(j)~~(k) of this rule; ~~or~~
- (iv) The Automotive Coating complies with the alternative PW-MIR VOC limits in Table 3; or
- (B) ~~The r~~Rrequirements of paragraphs ~~(d)(4)(f)(7) and (d)(5).~~
- (3) ~~For the purpose of this rule, no~~ No person shall supply, sell, offer for sale, market, blend, package, repackage or distribute any ~~automotive coating~~Automotive Coating for use within the ~~District~~South Coast AQMD subject to the provisions in this rule ~~which~~that, when applied as supplied or thinned or reduced according to the manufacturer's recommendation for application, does not ~~meet~~ comply with the:
- (A) Applicable VOC limits required by paragraph (d)(1) for the specific application, unless:
- (i) The ~~automotive coating~~Automotive Coating is for use at a facility that utilizes an approved ~~emission control device~~Emission Control System pursuant to ~~subparagraph (d)(3)(A)(e)(1),~~ and the ~~coating~~Coating ~~meets/complies with~~ the limits specified in permit conditions; ~~or,~~
- ~~(ii) The automotive coating is specifically exempt under subdivision (j) of this rule; or,~~
- (iii) The ~~automotive coating~~Automotive Coating is for use at a facility that operates in accordance with an approved Alternative Emissions Control Plan pursuant to ~~subparagraph (d)(3)(B)(e)(2),~~ and the ~~automotive coating~~Automotive Coating is specified in the plan;
- (iii) The Automotive Coating is specifically exempt pursuant to subdivision (k) of this rule; or; and,
- (iv) The Automotive Coating complies with the alternative PW-MIR VOC limits in Table 3; or

- ~~(iv) — The person that supplies, sells, offers for sale, markets, blends, packages, repackages or distributes the automotive coating keeps the following records for at least five years and makes them available to the Executive Officer upon request:
 - ~~(I) — Automotive coating name and manufacturer;~~
 - ~~(II) — Application method as recommended;~~
 - ~~(III) — Automotive coating category and mix ratio specific to the automotive coating;~~
 - ~~(IV) — VOC content of the automotive coating;~~
 - ~~(V) — Documentation such as manufacturer specification sheets, material safety data sheets, technical data sheets, or any other air quality data sheets that demonstrate that the material is intended for use as an automotive coating;~~
 - ~~(VI) — Current manufacturer specification sheets, material safety data sheets, technical data sheets, or air quality data sheets, which list the VOC content of each ready-to-spray automotive coating (based on the manufacturer's stated mix ratio) and automotive coating components and VOC content of each solvent; and~~
 - ~~(VII) — Purchase records identifying the automotive coating category, name, and volume of automotive coatings.~~
 - ~~(VIII) — In addition, for sale to an end-user, the name and address of the person receiving the automotive coating, an acknowledgement warranting that the sale to an end-user will comply with this paragraph, including if use is for outside the District, and acknowledgement by the purchaser that this statement is correct.~~~~

(B) ~~The~~ Rrequirements of paragraphs ~~(d)(4)(f)(7) and (d)(5)~~.

- (4) ~~For the purpose of this rule, no~~ No person shall solicit from, specify, require, offer for sale, sell, or distribute to any other person for use in the District South Coast AQMD any automotive coating Automotive Coating application equipment ~~which~~ that does not ~~meet~~ comply with the requirements of ~~subparagraph (d)(6)(A)(d)(9)~~.

- (5) ~~For the purpose of this rule, no~~ No person shall offer for sale, sell, supply, market, ~~offer for sale~~ or distribute an HVLP spray gun for use within the South Coast AQMD unless the person ~~offering for sale, selling, marketing or distributing the HVLP spray gun for use within the SCAQMD~~ provides accurate information to the spray gun recipient ~~on~~ regarding the maximum inlet air pressure to the spray gun ~~which~~ that would result in a maximum air pressure of 10 ~~pounds per square inch gauge (psig)~~ air pressure, measured dynamically at the center of the air cap and at the air horns, based on:
- (A) ~~the~~ The manufacturer's published technical material on the design of the spray application equipment; ~~and~~
- (B) ~~by a~~ 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 ~~which~~ that clearly identifies the spray gun manufacturer, the seller, or the distributor.
- (6) ~~For the purpose of this rule, the~~ The requirements of paragraphs ~~(e)(1), (e)(2), (e)(3) or (e)(4)~~ (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~~ Automotive Coating or an ~~automotive coating~~ Automotive Coating application equipment shall be used at any location within the ~~District~~ 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

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

~~(f)~~(g) Recordkeeping Requirements

(1) Recordkeeping for VOC Emissions

Records of ~~automotive coating~~ Regulated Product usage shall be maintained pursuant to ~~SCAQMD~~-Rule 109 – Recordkeeping for Volatile Organic Compound Emissions, and shall at a minimum include the following information:

- (A) ~~Material~~ Regulated Product name and manufacturer;
- (B) Application method as recommended;
- (C) Automotive ~~coating~~ Coating category and mix ratio specific to the ~~coating~~ Automotive Coating;
- (D) Actual VOC and ~~regulatory~~ Regulatory VOC content ~~for~~ of the ~~automotive coating~~ Regulated Product;
- (E) Documentation such as manufacturer specification sheets, material safety data sheets, technical data sheets, or any other air quality data sheets that ~~indicate~~ demonstrate the material is intended for use as an ~~automotive coating~~ Automotive Coating or ~~solvent~~ Automotive Coating Component;
- (F) Current manufacturer specification sheets, material safety data sheets, technical data sheets, or air quality data sheets, ~~which that~~ list the ~~actual~~ Actual VOC and ~~regulatory~~ Regulatory VOC content, for each ~~ready-to-spray~~ Ready-to-Spray ~~automotive coating~~ Automotive Coating (based on the manufacturer’s stated mix ratio) and; ~~automotive coating components~~ Automotive Coating Components, ~~and the VOC content for each solvent~~; and;

- (G) Purchase records identifying the ~~automotive coating~~Automotive Coating category, name, and the total volume of all ~~coatings and solvents~~Regulated Products used.
- (2) Recordkeeping Requirements for Emission Control System
Any person using an ~~emission control system~~Emission Control System shall maintain daily records of key system operating parameters ~~which that~~ will demonstrate continuous operation and compliance of the ~~emission control system~~Emission Control System during periods of VOC emission—producing activities.— “Key system operating parameters” are those parameters necessary to ensure or document compliance with ~~subparagraph (d)(3)(A)~~(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 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.

~~(g)~~(h) Administrative and Reporting Requirements for Automotive Coating Manufacturers

(1) Compliance Statement Requirement

For each individual ~~automotive coating~~Automotive Coating, ~~automotive coating component~~Automotive Coating Component, and ~~ready-to-spray~~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~~Actual VOC and ~~regulatory~~Regulatory VOC content for ~~automotive coatings~~Automotive Coatings (in grams per liter);
- (B) The weight percentage of volatiles, water, and ~~exempt compounds~~Exempt Compounds; and,
- (C) The density of the material (in grams per liter).

(2) Labeling Requirements for Coating Manufacturers

~~(A)~~—The manufacturer of ~~automotive coatings or automotive coating components~~Regulated Products, ~~including hardeners,~~ with the exception of ~~solvents such as reducers and thinners~~Reducers or Thinners, shall include on all containers:

- ~~(A)~~ The applicable ~~use automotive coating~~Automotive Coating category; ~~and~~
- ~~(B)~~ The ~~the~~Actual VOC and ~~regulatory~~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~~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.

~~(B)~~(3) Labeling Requirements for Reducers and Thinners

The manufacturer of ~~solvents, including reducers and thinners~~Reducers and Thinners, subject to this rule shall include on all containers:

(A) ~~The actual~~ 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:

(i) Sell-through provision pursuant to ~~subparagraph (f)(7)(D), Table 3~~ 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

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

~~(h)~~(i) Test Methods

(1) ~~Methods of Analysis~~

~~For the purpose of this rule, the following test methods shall be used:~~

~~(A)~~—VOC Content of Automotive Coatings

~~(i)~~—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). ~~The exempt compounds~~Exempt Compounds’ content ~~shall be determined by South Coast Air Quality Management District (South Coast AQMD) Laboratory Test Method 303 – (Determination of Exempt Compounds) contained in the SCAQMD “Laboratory Method of Analysis for Enforcement Samples” manual;~~ or

~~(ii)~~(B) South Coast AQMD Test Method 304 [– Determination of Volatile Organic Compounds (VOCs) in Various Materials] contained in the SCAQMD “Laboratory Method of Analysis for Enforcement Samples” manual.

~~(B)~~(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 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) ~~eyelic~~[Cyclic](#), branched, or linear, completely fluorinated alkanes;
- (B) ~~eyelic~~[Cyclic](#), branched, or linear, completely fluorinated ethers with no unsaturations;
- (C) ~~eyelic~~[Cyclic](#), branched, or linear, completely fluorinated tertiary amines with no unsaturations; and
- (D) ~~sulfur~~[Sulfur](#)-containing perfluorocarbons with no unsaturations and with sulfur bonds only to carbon and fluorine, ~~shall be analyzed as exempt compounds for compliance with paragraph (d)(1), only at such time as manufacturers specify which individual compounds are used in the formulation of the automotive coatings and identify the test methods, which have been approved by the U.S. EPA, CARB and the SCAQMD prior to such analysis, that can be used to quantify the amounts of each exempt compound.~~

~~(C)~~[\(3\)](#) Determination of ~~Iridescent~~[Metallic](#) Particles in ~~Metallic~~[Iridescent Color](#) Coatings

The metal ~~and silicon~~ content of ~~metallic/iridescent coatings~~[Color Coatings](#) shall be determined by [South Coast AQMD Test Method 311](#) ~~– (Determination of Percent Metal in Metallic Coatings by Spectrographic Method)~~ ~~contained in the SCAQMD “Laboratory Method of Analysis for Enforcement Samples” manual.~~

~~(D)~~[\(4\)](#) Acid Content in Pretreatment Automotive Coatings

The acid content of ~~pretreatment automotive coatings~~[Pretreatment Wash Primers](#) shall be determined by ASTM Test Method D1613-06-~~(2012)~~ ~~– (Acidity in Volatile Solvents and Chemical Intermediates Used in Paint, Varnish, Lacquer, and related products~~ [Related Products](#)~~).~~

~~(E)~~[\(5\)](#) ~~Reflectance of Anti-Glare Safety Automotive Coatings~~[Gloss Determination](#)

The ~~reflectance of anti-glare safety~~ [gloss of automotive coatings](#)[Automotive Coatings](#) shall be determined by ASTM Test Method D-523-08-~~(Specular Gloss).~~

~~(F)~~[\(6\)](#) Transfer Efficiency

The ~~transfer efficiency~~[Transfer Efficiency](#) of alternative ~~automotive coating~~[Automotive Coating](#) application methods, as defined by ~~elause~~ ~~(d)(6)(A)(v)~~[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, ~~May 24, 1989,~~” and South Coast AQMD “Guidelines for Demonstrating Equivalency With District Approved Transfer Efficiency Spray Gun-~~September 26, 2002.~~”

~~(G)~~ 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.~~

~~(2)~~(7) Determination of Efficiency of Emission Control Systems

~~(A)~~ A person that elects to comply with the provision of paragraph (d)(1) using an ~~The efficiency of the collection device of an emission control system~~ Emission Control System as specified in ~~subparagraph (d)(3)(A)~~ (e)(1) shall ~~be determined by the methods specified below:~~

(A) Determine the efficiency of the collection device in the Emission Control System by using:

~~(i)~~ (i) ~~U.S. EPA method cited in 55 Federal Register (FR) 26865, June 29, 1990; or~~

~~(ii)~~(i) South Coast AQMD’s “Protocol for Determination of Volatile Organic Compounds (VOC) Capture Efficiency.”; or

~~(iii)~~(ii) Any other method approved by the U.S. EPA, CARB, and the ~~District~~ South Coast AQMD Executive Officer.

(B) Determine ~~The~~ the efficiency ~~of the control device of an emission control system as specified in subparagraph (d)(3)(A) and the VOC content in the control device~~ in the Emission Control System exhaust gases, measured and calculated as carbon, ~~shall be determined by:~~

(i) ~~U. S. EPA Test Methods 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;~~ ~~or~~

(iii) South Coast AQMD Method 25.1 ~~- (Determination of Total Gaseous Non-Methane Organic Emissions as Carbon);~~ ~~as applicable~~ 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~~shall be used to determine emissions of exempt compounds.~~

(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.

~~(3)~~(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)~~(i) Rule 442 Applicability

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

~~(j)~~(k) Exemptions

(1) ~~This~~The provision of this rule shall not apply to:

(A) Any ~~automotive coating~~Automotive Coating applied to ~~motor vehicle~~Motor Vehicle or ~~mobile equipment~~Mobile Equipment, or their ~~associated parts and components~~Associated Parts and Components, during manufacture on an ~~assembly line~~Assembly Line that is subject to a VOC limit in Rule 1115 - Motor Vehicle Assembly Line Coating Operations;

(B) Any ~~automotive coating~~Automotive Coating that is expressly and exclusively offered for sale, sold, or manufactured for use outside of

- the ~~District-South Coast AQMD~~ or that is for shipment to other manufacturers for reformulation or repackaging;
- (C) Any ~~aerosol coating product~~Aerosol Coating Product; and
- (D) Any ~~automotive coating~~Automotive Coating that is supplied, sold, offered for sale, marketed, manufactured, blended, packaged or repackaged for use within the District-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) ~~The requirements of paragraph (d)(1) shall not apply to automotive coatings~~Automotive Coatings applied for educational purposes at ~~automotive coating~~Automotive Coating training centers, ~~which that~~ are owned and operated by ~~automotive coating~~Automotive Coating manufacturers, provided that the VOC emissions emitted at ~~the automotive coating~~Automotive Coating training center from all automotive coatingsAutomotive Coatings ~~not meeting~~complying with the VOC limits of paragraph (d)(1) complying with paragraph (d)(1) do not exceed ~~twelve (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~~Automotive Coatings supplied by an assembly-line ~~motor vehicle~~Motor Vehicle manufacturer for use by a prototype ~~motor vehicle~~Motor Vehicle manufacturing facility in the finishing of a prototype ~~motor vehicle~~Motor Vehicle, provided that the VOC emissions at the prototype ~~motor vehicle~~Motor Vehicle manufacturing facility from all such ~~topeats~~Automotive Coatings not complying with the VOC limits of paragraph (d)(1) do not exceed neither 21 pounds per in a calendar day and nor 930 pounds in any one calendar year.
- (4) The requirements of ~~subparagraph (d)(6)(A)(d)(9)~~ shall not apply to ~~automotive graphic arts operations~~Automotive Graphic Arts Operations, ~~truck bed liner coatings~~Truck Bed Liner Coatings, or ~~underbody coatings~~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.