

**R307. Environmental Quality, Air Quality.****R307-354. Emissions Standards for Automotive Refinishing.****R307-354-1. Purpose.**

The purpose of R307-354 is to limit volatile organic compound emissions (VOC) from automotive refinishing sources.

**R307-354-2. Applicability.**

R307-354 applies to automotive refinishing sources that have the potential to emit 2.7 tons or more per year of VOC and are located in Box Elder, Cache, Davis, Salt Lake, Tooele, Utah and Weber counties.

**R307-354-3. Definitions.**

The following additional definitions apply to R307-354:

"Adhesion promoter" means a coating which is labeled and formulated to be applied to uncoated plastic surfaces to facilitate bonding of subsequent coatings, and on which, a subsequent coating is applied

"Automotive" means passenger cars, vans, motorcycles, trucks, buses, golf carts and all other mobile equipment.

"Automotive refinishing" means the process of coating automobiles after-market automobiles, motorcycles, light and medium-duty trucks and vans that are performed in auto body shop, auto repair shops, production paint shops, new car dealer repair and paint shops, fleet operation repair and paint shops, and any other facility which coats vehicles under the Standard Industrial Classification Code 7532 (Top, Body and Upholstery Repair Shops and Paint Shops). This includes dealer repair of vehicles damaged in transit. It does not include refinishing operations for other types of mobile equipment, such as farm machinery and construction equipment or their parts, including partial body collision repairs, that is subsequent to the original coating applied at an automobile original equipment manufacturing plant.

"Clear coating" means any coating that contains no pigments and is labeled and formulated for application over a color coating or clear coating.

"Coating" means a protective, decorative, or functional material applied in a thin layer to a surface. Such materials may include paints, topcoats, varnishes, sealers, stains, washcoats, basecoats, inks, and temporary protective coatings.

"Color coating" means any pigmented coating, excluding adhesion promoters, primers, and multi-color coatings, that requires a subsequent clear coating and which is applied over a primer, adhesion promoter, or color coating. color coatings include metallic/iridescent color coatings.

"Cut-in, or jambing, clearcoat" means a fast-drying, ready-to-spray clearcoat applied to surfaces such as door jambs and trunk and hood edges to allow for quick closure.

"Elastomeric coating" means a coating designed for application over flexible parts, such as elastomeric bumpers.

"Enclosed paint gun cleaner" means a cleaner consisting of a closed container with a door or top that can be opened and closed and fitted with cleaning connections. The spray gun is attached to a

1 connection, and solvent is pumped through the gun and onto the exterior  
2 of the gun. Cleaning solvent falls back into the cleaner's solvent  
3 reservoir for recirculation.

4 "Finishing material" means a coating used in the automotive  
5 refinishing industry, including basecoats, stains, washcoats,  
6 sealers, and topcoats.

7 "Finishing operation" means those activities in which a finishing  
8 material is applied to a substrate and is subsequently air-dried, cured  
9 in an oven, or cured by radiation.

10 "Low-gloss coating" means a coating which exhibits a gloss reading  
11 less than or equal to 25 on a 60 degree glossmeter.

12 "Metallic/Iridescent color coating" means a coating which  
13 contains iridescent particles, composed of either metal as metallic  
14 particles or silicon as mica particles, in excess of 0.042 pounds per  
15 gallon as applied, where such particles are visible in the dried film.

16 "Multi-colored coating" means a coating which exhibits more than  
17 one color when applied, and which is packaged in a single container  
18 and applied in a single coat.

19 "Non - enclosed paint gun cleaner" means cleaner consisting of  
20 a basin similar to a sink in which the operator washes the outside  
21 of the gun under a solvent stream. The gun cup is filled with  
22 recirculated solvent, the gun tip is placed into a canister attached  
23 to the basin, and suction draws the solvent from the cup through the  
24 gun. The solvent gravitates to the bottom of the basin and drains  
25 through a small hole to a reservoir that supplies solvent to the  
26 recirculation pump.

27 "Pretreatment coating" means a coating which contains no more  
28 than 16% solids, by weight, and at least 0.5% acid, by weight, is used  
29 to provide surface etching, and is applied directly to bare metal  
30 surfaces to provide corrosion resistance and promote adhesion for  
31 subsequent coatings.

32 "Primer" means any coating which is labeled and formulated for  
33 application to a substrate to provide a bond between the substrate  
34 and subsequent coats; corrosion resistance; a smooth substrate  
35 surface; or resistance to penetration of subsequent coats, and on which  
36 a subsequent coating is applied. Primers may be pigmented.

37 "Single-stage coating" means any pigmented coating, excluding  
38 primers and multi-color coatings, labeled and formulated for  
39 application without a subsequent clear coat. Single-stage coatings  
40 include single-stage metallic/iridescent coatings.

41 "Solids" means the part of the coating that remains after the  
42 coating is dried or cured; solids content is determined using data  
43 from EPA Method 24.

44 "Specialty coatings" means adhesion promoters, low-gloss  
45 coatings, bright metal trim repair coatings, jaming (cut-in)  
46 clearcoats, elastomeric coatings, impact resistant coatings,  
47 underbody coatings, uniform finish blenders, and weld-through primers.

48 "Temporary protective coating" means any coating which is labeled  
49 and formulated for the purpose of temporarily protecting areas from  
50 overspray or mechanical damage.

51 "Topcoat" means any coating or series of coatings applied over  
52 a primer or an existing finish for the purpose of protection or

1 beautification.

2 "Truck bed liner coating" means any coating, excluding clear,  
3 color, multi-color, and single-stage coatings, labeled and formulated  
4 for application to a truck bed to protect it from surface abrasion.

5 "Underbody coating" means any coating labeled and formulated for  
6 application to wheel wells, the inside of door panels or fenders, the  
7 underside of a trunk or hood, or the underside of the motor vehicle.

8 "Uniform finish coating" means any coating labeled and formulated  
9 for application to the area around a spot repair for the purpose of  
10 blending a repaired area's color or clear coat to match the appearance  
11 of an adjacent area's existing coating. Prior to May 1, 2013, this  
12 coating category may be referred to as uniform finish blenders.

13 "Uniform finish blender" means a coating designed to blend a  
14 repaired topcoat into an existing topcoat.

15  
16 **R307-354-4. Emission Standards.**

17 Each owner or operator of an automotive refinishing source shall  
18 not cause or allow the emission of VOCs from automotive refinishing  
19 operations in excess of the applicable emission rates specified in  
20 Table 1 or shall use an add-on control device as specified in  
21 R307-354-6.

22 TABLE 1

23  
24 AUTOMOTIVE REFINISHING VOC LIMITS  
25 (values in pounds of VOC allowed to be emitted per gallon of coating,  
26 minus water, as applied)

28 COATING CATEGORY	VOC EMISSION RATES
29 Adhesion Promoter	4.5
30 Clear Coating	2.1
31 Color Coating	3.5
32 Multi-color Coating	5.7
33 Pretreatment Coating	5.5
34 Primer	2.1
35 Primer Sealer	2.1
36 Single-stage Coating	2.8
37 Temporary Protective Coating	0.5
38 Truck Bed Liner Coating	2.6
39 Underbody Coating	3.6
40 Uniform Finish Coating	4.5

1  
2 Any Other Coating Type

2.1

3  
4 **R307-354-5. Work Practice and Recordkeeping.**

5 (1) Fugitive emissions. Control techniques and work practices  
6 are to be implemented at all times to reduce VOC emissions from fugitive  
7 type sources. Control techniques and work practices include:

8 (a) Tight fitting covers for open tanks;  
9 (b) Covered containers for solvent wiping cloths;  
10 (c) Collection hoods for areas where solvent is used for cleanup;  
11 (d) Minimizing spill of VOC-containing cleaning materials;  
12 (e) Conveying VOC-containing materials from one location to  
13 another in closed containers or pipes;

14 (f) Cleaning spray guns in enclosed systems or  
15 a non-enclosed paint gun cleaner may be used if the vapor pressure  
16 of the cleaning solvent is less than 100 millimeters of mercury (mm  
17 Hg) at 68 degrees Fahrenheit and the solvent is directed towards a  
18 drain that leads directly to an enclosed remote reservoir.

19 (g) Using recycled solvents for cleaning;  
20 (h) Disposing waste solvents and waste materials that contain  
21 solvents by recycling, reclaiming, incineration in an incinerator  
22 approved to process hazardous materials, or by an alternate means  
23 approved by the director.

24 (2) The owner or operator shall maintain records from the  
25 manufacturer that demonstrate compliance with the emission standards  
26 of R307-354-4.

27 (3) Application equipment requirements:

28 (a) A person shall not apply any coating to an automotive part  
29 or component unless the coating application method achieves a  
30 demonstrated 65% transfer efficiency.

31 (b) The following coating application methods have been  
32 demonstrated to achieve a minimum of 65% transfer efficiency:

33 (i) Brush, dip or roll coating operated in accordance with the  
34 manufacturers specifications;

35 (ii) Electrostatic application equipment operated in accordance  
36 with the manufacturers specifications; and

37 (iii) High Volume, Low Pressure spray equipment operated in  
38 accordance with the manufacturers specifications.

39 (c) Other coating application methods may be used that have been  
40 demonstrated to be capable of achieving at least 65% transfer  
41 efficiency, as certified by the manufacturer.

42  
43 **R307-354-6. Optional Add-On Controls.**

44 (1) The owner or operator may install and maintain an  
45 incinerator, carbon adsorption, or any other add-on emission control  
46 device, provided that the emission control device will attain at least  
47 90% efficiency performance.

48 (2) The owner or operator of a control device shall provide  
49 certification from the manufacturer that the emission control system  
50 will attain required efficiency performance.

51 (3) Emission control systems shall be operated and maintained  
52 in accordance with the manufacturer recommendations. The owner or

1 operator shall maintain for a minimum of two years records of operating  
2 and maintenance sufficient to demonstrate that the equipment is being  
3 operated and maintained in accordance with the manufacturer  
4 recommendations.

5

6 **R307-354-7. Compliance Schedule.**

7 All sources within Box Elder, Cache, Davis, Salt Lake, Tooele,  
8 Utah, and Weber counties shall be in compliance with this rule by  
9 September 1, 2013.

10

11 **KEY: autobody refinishing, VOC**

12 **Date of Enactment or Last Substantive Amendment: 2012**

13 **Notice of Continuation:**

14 **Authorizing, and Implemented or Interpreted Law:**

15

16

DRAFT