



FACT SHEET

R307-347 Large Appliance Surface Coatings

Overview

The Utah Division of Air Quality, R307-347, was adopted as part of a package of rules designed to help minimize pollution along the Wasatch Front. The rule applies to large appliance surface coating operations in Box Elder, Cache, Davis, Salt Lake, Tooele, Utah and Weber counties.

The rule is designed to limit volatile organic compound (VOC) emissions from operations that have the potential to emit 2.7 tons per year or more of VOC, including related cleaning activities.

Requirements

You have the option of either limiting the amount of VOC coatings applied or limiting VOCs by using add on control systems. Work practices to be followed are also outlined.

VOC Content Limits

Large Appliance Coating Limitations

Values in pounds VOC per gallon of coating, minus water and exempt solvents (compounds not classified as VOC), as applied

Coating Category	VOC Content Limits	
	Baked	Air Dried
General, One Component	2.3	2.3
General, Multi Component	2.3	2.8
Extreme High Glass	3.0	2.8
Extreme Performance	3.0	3.5
Heat Resistant	3.0	3.5
Solar Absorbent	3.0	3.5
Metallic	3.5	3.5
Pretreatment Coatings	3.5	3.5

Exemptions

The requirements of R307-347 **do not apply** to the following:

- Stencil coatings;
- Safety-indicating coatings;
- Solid-film lubricants;
- Electrical-insulating and thermal-conducting coatings;
- Touch-up and repair coatings; or
- Coating applications utilizing hand-held aerosol cans.

Utah Division of Air Quality

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General Air Quality information, regulations, and contact information: <http://www.airquality.utah.gov>

This fact sheet provides general information concerning the Large Appliance Surface Coatings rule. See <http://www.rules.utah.gov/publicat/cod/e/r307/r307-347.htm> for the entire rule.

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Add-On Controls Systems

An incinerator, carbon adsorption, or any other add-on emission control system operated and maintained:

- In accordance with the manufacturer recommendations to achieve and maintain at least 90% capture and control efficiency.
- Provide documentation that the emission control system will attain to the requirements of the rule.
- Records of key system parameters are maintained, including;
 - Temperature, pressure and flow rates.
- Operator inspection schedule, monitoring and recordkeeping shall be in accordance with the manufacturer's recommendations, and as required to demonstrate operations are providing continuous emission reduction from the source during all periods that the operations cause emissions from the source.

Work Practices to be Followed

Control techniques including:

- Store all VOC-containing coatings, thinners, and cleaning materials in closed containers;
- Minimize spills;
- Clean up immediately;
- Convey any coatings, thinners, and cleaning materials in closed containers or pipes;
- Close mixing vessels and other materials except when specifically in use; and
- Minimize usage of solvents during cleaning of storage, mixing, and conveying equipment.

Coating application method:

- Achieve a minimum of 65% transfer efficiency and operate in accordance with the manufacturers specifications.
- The following applications achieve this requirement:
 - Electrostatic application;
 - Electrodeposition;
 - Brush coat;
 - Flow coat;
 - Roll coat;
 - Dip coat;
 - Continuous coating;
 - High-volume, low-pressure (HVLP) spray.
 - Other methods may be used if the transfer efficiency is met.

Solvent cleaning operations:

- Cleaning material with VOC content of 0.21 pounds per gallon or less.
- Excluding compounds not classified as VOC.

Record Keeping

Maintain records, for a minimum of two years, demonstrating compliance.

