Title 26 DEPARTMENT OF THE ENVIRONMENT

Subtitle 11 AIR QUALITY

Chapter 19 Volatile Organic Compounds from Specific Processes

.07-2 Plastic Parts and Business Machines Coating.

A. Definitions. In this regulation, the following terms have the meanings indicated:

(1) "Business machine" means a device that uses electronic or mechanical methods to process information, perform calculations, print or copy information, or convert sound into electrical impulses for transmission, such as:

(a) Products classified as typewriters under SIC Code 3572;

(b) Products classified as electronic computing devices under SIC Code 3573;

(c) Products classified as calculating and accounting machines under SIC Code 3574;

(d) Products classified as telephone and telegraph equipment under SIC Code 3661;

(e) Products classified as office machines, not elsewhere classified, under SIC Code 3579; and

(f) Photocopy machines, a subcategory of products classified as photographic equipment under SIC code 3861.

(2) "Business machine coating" means a coating applied to a business machine.

(3) "Electric dissipating coating" means a coating that rapidly dissipates a high voltage electric charge.

(4) Extreme Performance Coating.

(a) "Extreme performance coating" means a coating used on a plastic surface where the coated surface is, in its intended use, subject to the following:

(i) Chronic exposure to corrosive, caustic, or acidic agents, chemicals, chemical fumes, chemical mixtures, or solutions;

(ii) Repeated exposure to temperatures in excess of 250º F; or

(iii) Repeated heavy abrasion, including mechanical wear and repeated scrubbing with industrial grade solvents, cleansers, or scouring agents.

(b) “Extreme performance coating” includes, but is not limited to, coatings applied to locomotives, railroad cars, farm machinery, and heavy duty trucks.

(5) “Fog coating”, also known as mist coating and uniforming, means a thin coating of 0.5 mils or less applied to plastic parts that have molded-in color or texture, or both, to improve color uniformity.

(6) “Metallic coating” means a coating which contains more than 5 grams of metal particles per liter of coating, as applied.

(7) “Military specification coating” means a coating which has a formulation approved by a United States Military Agency or Service for use on military equipment.

(8) “Mold seal coating” means the initial coating applied to a new mold or a repaired mold to provide a smooth surface which, when coated with a mold release coating, prevents products from sticking to the mold.

(9) “Multi-colored coating” means a coating which exhibits more than one color when applied, and which is packaged in a single container and applied in a single coat.

(10) “Multi-component coating” means a coating requiring the addition of a separate reactive resin, commonly known as a catalyst or hardener, before application to form an acceptable dry film.

(11) “One-component coating” means a coating that is ready for application as it comes out of its container to form an acceptable dry film, except for the addition of a thinner to reduce the viscosity.

(12) “Optical coating” means a coating applied to an optical lens.

(13) “Plastic part” means a product made out of a plastic substrate other than vinyl.

(14) “Plastic part coating” means a coating applied to a plastic part.

(15) “Prime coat” means the initial coat applied to a part when more than one coating is applied, not including conductive sensitizers or electromagnetic interference/radio frequency interference (EMI/RFI) shielding coatings.

(16) “Shock-free coating” means a coating having characteristics of low capacitance, high resistance, and resistance to breaking down under high voltage, which are applied to electrical components to protect the user from electric shock.

(17) “Standard Industrial Classification Code (SIC Code)” means a code for classifying types of businesses found in the Standard Industrial Classification Manual, 1987, prepared by the Executive Office of the President, Office of Management and Budget.

(18) Texture Coat.

(a) “Texture coat” means a coating which, after application and in its finished form, is characterized by discrete, raised spots on the exterior surface of the coated part.

(b) “Texture coat” does not include conductive sensitizers or EMI/RFI shielding coatings.

(19) Touch-Up and Repair Coat.

(a) “Touch-up and repair coat” means:

(i) A coat applied to correct any imperfections in the finish after color or texture coats have been applied; or

(ii) A coat used to re-coat portions of a previously coated product which has sustained mechanical damage to the coating following normal coating operations.

(b) “Touch-up and repair coat” does not include conductive sensitizers or EMI/RFI shielding coatings.

(20) “Vacuum-metalizing coatings” means topcoats and basecoats that are used in the vacuum-metalizing process.

(21) “Vacuum metalizing process” means a process of evaporating metals inside a vacuum chamber which then bonds to the desired substrate to achieve a uniform metalized layer.

B. Standards for Coating Installations.

(1) A person may not cause or permit the discharge into the atmosphere of any VOC from any installation listed in §B(2), (3), and (4) of this regulation in excess of the standards in §B(2), (3), and (4) of this regulation.

(2) Plastic Parts Coating Standards.

Coating Installation	Applicability (Pounds of VOC per day)	Pounds of VOC Per Gallon of Coating (As applied minus water)	Kilograms of VOC Per Liter of Coating (As applied minus water)
Decorative coating of other plastic parts	20	5.9	0.70

General, one-component	15	2.3	0.28
General, multi-component	15	3.5	0.42
Electric dissipating coatings and shock-free coatings	15	6.7	0.80
Extreme performance	15	3.5	0.42
Metallic	15	3.5	0.42
Military specification, one-component	15	2.8	0.34
Military specification, multi-component	15	3.5	0.42
Mold seal	15	6.3	0.76
Multi-colored coatings	15	5.7	0.68
Optical coatings	15	6.7	0.80
Plastic vehicle parts	20	3.0	0.36
Vacuum-metalizing	15	6.7	0.80
Vinyl	20	3.8	0.45

(3) Business Machines Coating Standards.

Coating Installation	Applicability (Pounds of VOC per day)	Pounds of VOC Per Gallon of Coating (As applied minus water)	Kilograms of VOC Per Liter of Coating (As applied minus water)
Prime Coat	15	2.9	0.35
Topcoat	15	2.9	0.35
Texture coat	15	2.9	0.35
Fog coat	15	2.2	0.26
Touchup and repair	15	2.9	0.35

(4) Printing Standards.

Printing Installation	Applicability (Pounds of VOC per day)	Pounds of VOC Per Gallon of Coating (As applied minus water)	Kilograms of VOC Per Liter of Coating (As applied minus water)
Plastic other than vinyl	Non-major source	5.8	0.69
Plastic other than vinyl	Major source as defined in COMAR 26.11.19.01B(4)	3.8	0.45
Vinyl	20	3.8	0.45

C. Application Methods. A person subject to the requirements of §B of this regulation shall use the following application methods:

(1) Electrostatic application;

(2) HVLP spray;

(3) Flow coat;

(4) Roller coat;

(5) Dip coat including electrodeposition;

(6) Brush coat; or

(7) A coating application method capable of achieving a transfer efficiency equivalent to or better than the efficiency achieved by HVLP spraying.