

Title 26 DEPARTMENT OF THE ENVIRONMENT

Subtitle 11 AIR QUALITY

Chapter 19 Volatile Organic Compounds from Specific Processes

.07 Paper, Fabric, Film, and Foil Coating.

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

(1) "Coating line" means any number or combination of adhesive, release, or pre-coat coating applicators, flash-off areas, and ovens that:

(a) Coat a continuous web;

(b) Are located between one or more web unwind or feed stations and one or more rewind or cutting stations; and

(c) Are used to apply a paper, film, or foil products coating as a continuous layer across any portion of the width of a web substrate, to:

(i) Provide a covering, finish, or functional or protective layer to a substrate;

(ii) Saturate a substrate for lamination; or

(iii) Provide adhesion between two substrates for lamination.

(2) "Coating solids applied" means the solids content of the coated paper, film, or foil products coating as measured by EPA Method 24.

(3) "Fabric coating" means depositing a coating on a textile substrate to enhance strength, stability, water or acid repellency, or appearance (such as on rainwear, tents, and industrial items such as gaskets and diaphragms).

(4) "Flash-off area" means the area between two or more consecutive coating applicators or between a coating applicator and a drying oven.

(5) Paper Coating.

(a) "Paper coating" means depositing a coating on paper or pressure sensitive tape (regardless of substrate) and includes related web coating processes on plastic film (such as typewriter ribbons, photographic film, and magnetic tapes) and decorative coatings on metal foil (such as gift wrap and packaging).

(b) "Paper coating" does not include sheet-fed paper coating.

(6) Paper, Film, and Foil Product.

(a) "Paper, film, and foil product" means any product made from paper, fabric, film, or foil surfaces or substrates manufactured for the following industry sectors:

(i) Pressure sensitive tape and labels, including fabric coated for use in pressure sensitive tapes and labels;

(ii) Photographic film;

(iii) Industrial and decorative laminates;

(iv) Abrasive products, including fabric coated for use in abrasive products; and

(v) Flexible packaging, including coating of non-woven polymer substrates for use in flexible packaging; and

(b) "Paper, film, and foil product" includes the following products:

(i) Corrugated and solid fiber boxes;

(ii) Die-cut paper, paperboard, and cardboard;

(iii) Converted paper and paperboard not elsewhere classified;

(iv) Folding paperboard boxes, including sanitary boxes;

(v) Manifold business forms and related products;

(vi) Plastic aseptic packaging; and

(vii) Carbon paper and inked ribbons.

(7) Paper, Film, and Foil Product Coating.

(a) "Paper, film, and foil product coating" means any coating applied to paper or fabric for use in pressure sensitive tapes and labels, film, or foil surfaces or substrates during the manufacture of paper, film, and foil products;

(b) "Paper, film, and foil product coating" includes any coating applied to a substrate used to manufacture paper, film, and foil products to:

(i) Provide a covering, finish, or functional or protective layer to a substrate;

(ii) Saturate a substrate for lamination; or

(iii) Provide adhesion between two substrates for lamination.

(c) "Paper, film, and foil product coating" does not include:

(i) Any coating applied individually or in a line with any offset lithographic, screen, letterpress, flexographic, rotogravure, or digital printing press; or

(ii) Any coating applied by presses and on machine coaters that function as part of an in-line papermaking system.

(8) "Pressure sensitive tape and label surface coating" means a paper, film, foil, or fabric coating that is applied to pressure sensitive tapes and labels.

(9) "Sheet-fed paper coating" means a noncontinuous method of paper coating.

(10) "Ultraviolet curable coating" means an as-applied non-VOC coating consisting of pigments, monomers, oligomers, modifiers, and other additives that polymerize upon exposure to an ultraviolet light source.

(11) "Vinyl coating" means depositing a printing, or decorative or protective topcoat, on vinyl-coated fabric or vinyl sheets.

B. Applicability.

(1) This regulation does not apply to a person who is subject to the provisions of Regulation .11 of this chapter if the coating is applied at the same premises where the printing is done.

(2) This regulation does not apply to any adhesive application that is subject to the provisions of Regulation .15 of this chapter.

(3) A person who owns or operates a coating line with the potential to emit 25 tons or greater per year of VOC from coatings, prior to controls, is subject to the requirements of §D of this regulation and is exempt from the requirements in §C of this regulation.

C. Emission Standards for Coating or Printing Installations.

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

(2) Coating Standards.

<i>Coating Installation</i>	<i>Applicability (Pounds of VOC per day)</i>	<i>Pounds of VOC Per Gallon of Coating As applied minus water)</i>	<i>Kilograms of VOC Per Liter of Coating (As applied minus water)</i>
Web paper	20	2.9	0.35
Fabric	20	2.9	0.35
Vinyl	20	3.8	0.45
Sheet-fed paper	20	2.9 or use ultra violet coating	0.35

D. Emission Standards for Paper, Film, and Foil Product Coating with VOC Emissions (Potential to Emit) of 25 Tons or Greater Per Year.

(1) A person who meets the applicability level of §B(3) of this regulation shall:

(a) Use add-on air pollution control equipment to reduce VOCs from the coating line by an overall capture and control efficiency of at least 90 percent, by weight; or

(b) Meet the following emission standard for each coating line installation:

Paper, Film, and Foil Coating	Emission Standard (Ratio)	
	lb VOC/ lb solids or kg VOC/kg solids	lb VOC/lb coating or kg VOC/kg coating
Paper, Film, and Foil Coating other than a Pressure Sensitive Tape and Label Surface Coating	0.40	0.08
Pressure Sensitive Tape and Label Surface Coating	0.20	0.06

(2) If air pollution control equipment is used to meet §D(1) of this regulation, the following requirements apply:

(a) If a thermal oxidizer is used, the combustion zone temperature shall be continuously monitored;

(b) If a catalytic oxidizer is used, inlet and exhaust gas temperatures shall be continuously monitored; and

(c) If a carbon adsorption system or other control device is used, the Department shall establish the operating parameters to be continuously monitored in the permit to construct authorizing installation of the control device.

(3) Operational records sufficient to demonstrate compliance with the requirements of this regulation shall be maintained on-site as required by Regulation .02F of this chapter.

