

Instruction Sheet
DEP7007K Surface Coating or Printing Operations

This form details information on emissions from Surface Coatings or Printing Operations.

Source Name: Enter the name of the facility.

KY EIS (AFS) #: Enter the Kentucky Emissions Inventory Section identification number of the facility. The KY EIS number follows the format: 21-____-____. A new facility will not have a KY EIS number.

Permit #: Enter the permit number of the permitted facility. This number is found on the front page of the permit. A new facility will not have a permit number.

Agency Interest (AI) ID: Enter the agency interest number of the facility. This number is found on the front page of the permit. A new facility will not have an agency interest number.

Date: Enter the date the form was completed. If the form is being revised, enter the date the form was revised.

Section K.1: Process Information:

Emission Unit #: Enter the unique number used to identify the emission unit. If the emission unit is currently permitted, use the existing identification number.

Emission Unit Name: Enter the name of the emission unit. Include the descriptor “fugitive” for processes that are fugitive emissions.

Coating/Printing Line Name: Enter the name or a description of the coating or printing line.

Proposed/Actual Date of Construction: Enter the proposed or actual date of construction commencement.

List Applicable Regulations: List all Kentucky State and Federal Regulations that apply to the emission unit.

Describe Overall Process: Provide a detailed description of the process. Attach a flow diagram.

Describe Coatings/Printing Materials: Enter the type of paint, ink, toner, or other coating/printing material.

Identify the Material that is Coated/Printed: Indicate the type of material being coated or printed.

Provide detailed description of material coated/printed: Provide a description of the material that is coated or printed.

Provide approximate dimensions and range of sizes of parts being coated or printed: Enter the dimensions or range of sizes of the substrates that are being coated in inches.

Identify the Type of Operation: Indicate the type of operation.

Describe Surface Preparation/Pretreatment Steps: Provide a description of how the substrate is prepared or treated before coating.

For Coating Operations: Indicate type of coating operation.

For Printing Operations: Indicate the type of printing operation.

Describe Final Product: Provide a brief description of the final coated or painted product.

Check the Category that most closely describes this unit: Indicate which category most closely describes the process unit.

Section K.2: Coating Operations:

K.2A: For Spray Coating:

Gun/Booth ID: Enter the number or name used to identify the spray gun or booth.

Describe Function: Describe the purpose of the spray gun or booth.

Type: Indicate the type of spray coating applicator used.

Mode: Indicate whether the spray coating is “manual” or “automatic”.

Maximum Design Application Rate: Record the maximum design application rate for the spray gun or both than can apply coating in gallons per hour (gal/hour) or pounds per hour (lb/hr).

Describe how Maximum Rate was Determined: Describe the process and engineering assumptions used to determine the maximum application rate.

If spray guns are used simultaneously, describe: Describe how spray guns are used simultaneously.

K.2B: For Brush Coating:

Describe Function: Provide a brief description of the brush coating.

Maximum Coating Application Rate: Record the maximum amount of coating applied by the brush in units of gallons per hour (gal/hr). Do not consider bottle necks.

K.2C: For Roller Coating:

Roller Coat ID: Enter the number or name used to identify the roller coating unit.

Describe Function: Describe the purpose of the roller coat.

Maximum Coating Application Rate: Record the maximum amount of coating that can be applied by the roller coat in units of gallons per hour (gal/hr) or pounds per hour (lb/hr).

Describe how maximum rate was determined: Describe the process and engineering assumptions used to determine the maximum application rate.

K.2D: For Powder Coating:

Powder Coat ID: Enter the number or name used to identify the powder coating unit.

Describe Function: Describe the purpose of the powder coating unit.

Maximum Coating Application Rate: Record the maximum amount of coating that can be applied by the powder coat in units of gallons per hour (gal/hr) or pounds per hour (lb/hr).

Describe how maximum rate was determined: Describe the process and engineering assumptions used to determine the maximum application rate.

If powder coating material is recycled, describe: Provide a description of how powder coating material is recycled.

K.2E: For Flow Coating:

Flow Coat ID: Enter the number or name used to identify the flow coating unit.

Describe Function: Describe the purpose of the flow coating unit.

Maximum Coating Application Rate: Record the maximum amount of coating that can be applied by the flow coat in units of gallons per hour (gal/hr) or pound per hour (lb/hr).

Describe how maximum rate was determined: Describe the process and engineering assumptions used to determine the maximum application rate.

K.2F: For Dip Tank/Electrodeposition Coating:

Tank ID: Enter the number or name used to identify the tank.

Describe Function: Describe the purpose of the dip tank/electrodeposition coating unit.

Maximum Make-up Rate: Record the maximum make-up rate in gallons per hour (gal/hr) or pounds per hour (lb/hr).

Describe how maximum rate was determined: Describe the process and engineering assumptions used to determine the maximum application rate.

Section K.3: Other Operations:

K.3A: For Finishing:

Describe the Finishing Processes: Describe the process used to finish the product. Complete DEP7007B.

K.3B: For Curing/Drying:

Describe Curing/Drying Processes: Describe the process used to cure, seal, or dry the product.

Description: Enter the name and type of oven used.

Rated Capacity: Record the capacity of the oven in million British Thermal Units per hour (MMBtu/hr).

Fuel: Enter the type of fuel used to heat the oven.

Control Device/Stack ID: Enter the stack ID. A detailed description of the stacks, vents, and control devices must be provided on DEP7007N. For cases where a stack or vent is not used, enter "internally exhausted."

K.3C: For Purge:

Type: Enter the type of purge used for cleanup.

Daily usage: Record the maximum amount of purge material used in gallons per day (gal/day).

K.3D: For Clean-up:

Type: Indicate the type of clean-up mechanism.

Daily usage: Record the maximum amount of clean-up material used in hours per day (hr/day).

Operating Hours: Record the number of operating hours per day.

K.3E: For Other Equipment:

Describe Processes: Describe any other processes that have potential to emit air emissions associated with coating and printing operations.

K.4: Coatings/Printing Materials as Applied:

Include MSDS or Technical Sheets for all coating/printing materials used.

Trade Name of Material: Enter the name of the coatings, inks, cleaning solvents, washes, or other materials.

Description: Enter a description of the material.

Emission Unit/Coating ID where material is used: Enter the emission point or emission unit number where the material is used.

SCC Code: Enter the Source Classification Code (SCC).

SCC Code Units: Enter the process operating rates units. Each SCC code has an assigned unit, but you may choose to use another unit that is more appropriate to your process. Please underline the units if you are choosing an alternate unit.

Density: Record the density of the material in pounds per gallon (lb/gal).

Solid Content: Record the solid content of the material in pounds per gallon (lb/gal).

VOC Content: Record the VOC content on the material in pounds per gallon (lb/gal).

Emission Factor for PM: Enter the PM emission factor in pounds per SCC unit (lb/SCC unit). The emission factor should not have transfer efficiency factored in. Provide a brief description of the source of the emission factor.

Transfer Efficiency: Enter the transfer efficiency of the paint as a percentage (%). Transfer efficiency is the percentage of solids for the applicator that attach to the substrate.

Emission Factor for VOC: Enter the VOC emission factor in pounds per SCC unit (lb/SCC unit). Provide a brief description of the source of the emission factor.

Capture Efficiency: Record the VOC capture efficiency as a percentage (%).

Control Device/Stack ID: Enter the stack ID. A detailed description of the stacks, vents, and control devices must be provided on DEP7007N. For cases where a stack or vent is not used, enter "internally exhausted."

K.5: Hazardous Air Pollutant-containing Coatings/Printing Materials:

List each individual hazardous air pollutant (HAP) contained in each material.

Trade Name of Material: Enter the name of the coatings, inks, cleaning solvents, washes, or other materials.

HAP Name: Enter the name of the hazardous air pollutant (HAP). Hazardous air pollutants are listed in section 112 of the Clean Air Act.

HAP CAS #: Enter the CAS # of the HAP.

Identify Solid (S) or Volatile (V): Enter "S" if the HAP is a solid and a "V" if the HAP is volatile.

HAP % by weight: Record the the percentage of weight of the HAP.

HAP Emission Factor: Enter the HAP emission factor in pounds per SCC unit (lb/SCC unit). Provide a brief description of the source of the emission factor.

Control Device/Stack ID: Enter the stack ID. A detailed description of the stacks, vents, and control devices must be provided on DEP7007N. For cases where a stack or vent is not used, enter "internally exhausted."

Section K.6: Notes, Comments, and Explanations

Use this sheet provide additional notes, comments, or explanations on the information provided in Sections K.1, K.2, K.3, K.4 and K.5.