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| **Department of Natural Resources and Environmental Control**  **Division of Air Quality**  **PERMIT APPLICATION** | | **AQM-1001E** |
| **SURFACE COATING *(or)* PRINTING OPERATIONS** |
| **SECTION I: GENERAL** |
| 1. Type of Parts Coated (Check the appropriate box(es))  A.  Aerospace Coating I.  Vinyl Coating  B.  Motor Vehicle Repair and Refinishing J.  Metal Furniture Coating  C.  Plastic Parts Coating K.  Large Appliance Coating  D.  Automobile and Light-Duty Truck Coating L.  Magnet Wire Coating  E.  Can Coating M.  Miscellaneous Metal Parts Coating  F.  Coil Coating N.  Flat Wood Paneling Coating  G.  Paper Coating O.  Graphic Arts Systems Printing  H.  Fabric Coating P.  Offset Lithographic Printing  X.  Other (*specify*):  (For A through P refer to the specific Regulation, 7 **DE Admin. Code** 1124) | | |
| 2. Description of the surface coating or printing operation: | | |
| 3. ATTACH A PROCESS FLOW DIAGRAM. Show entry and exit points of all materials and finished products. Label all materials including airborne contaminants, other waste materials, all process equipment, control equipment, and stacks, vents. (In Item 1, above, if any of the boxes marked A through P was checked, skip SECTION II and complete SECTIONS III, IV AND V; If box X (other) was checked, complete SECTIONS II, III, and V.) | | |
| **SECTION II: NON-SPECIFIC COATING OPERATIONS (as referred to in SECTION 1, Item 1X)** | | |
| Complete the following information for each general type of surface coating or printing material.  Make additional copies of this section if more space is needed | | |
| 4. UNMIXED COATING *(as purchased before thinning)*:  Coating employed:  Coating I.D. Number (if any):  Density:       lb/gal  Maximum Usage:       gal/hr;       gal/day;       gal/yr  Composition of the Coating (% by weight):  Attach MSDS sheets with the chemical composition for each coating, thinner and clean-up solvent.  Pigment:       %; Vehicle:       %; Organic Solvent:       %; Water:       % | | |
| SOLVENT COMPOSITION *(include water, if any)*: | | |
| |  |  |  |  |  | | --- | --- | --- | --- | --- | | **SOLVENT COMPOSITION** | **% BY VOLUME** |  | **SOLVENT COMPOSITION** | **% BY VOLUME** | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | | | |
| Is the above material photochemically reactive? | | |

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| **SECTION II *(Continued)*** |
| 5. THINNER  If thinner is used, list the type and amount of thinner used:  Type (e.g. xylene, naptha, mineral spirits, water, etc.):  Maximum Usage:       gal/hr;       gal/day;       gal/yr. | |
| **SECTION III: APPLICATOR DATA** | |
| Submit one Applicator Sheet (Section III) for each surface coating applicator (e.g.: Each spray booth, dip tank, flow coater, etc.) However, if this data is applicable for more than one applicator of the same type (e.g., two spray booths), indicate the applicator I.D. Numbers for which the data is applicable in Item 6: | |
| 6. (Assign a separate I.D. Number to each applicator)  Applicator I.D. Number:  Date Installed:   /  / | |
| 7. Mode of Surface Coating:  A.  Continuous  Batch  Other (*specify*):  B.  Manual  Automatic | |
| 8. Type of Applicator (*Check the appropriate boxes*):  A.  Spray  Air Gun  Electrostatic  Other (*specify*):  B.  Electrodeposition Tank Dimensions: Length:      ft; Width:      ft; Height:      ft  Capacity:       gallons  C.  Dip Tank  D.  Flow Coating  E.  Roll Coating  Rotogravure  Flexography  Other (*specify*):  F.  Brush  G.  Other (*specify*): | |
| 9. Type and amount of clean-up solvent(s) used (*attach a Material Safety Data Sheet with chemical compositions*):  Type:       Maximum Usage:       gal/hr;       gal/day;       gal/yr | |
| 10. Temperature of coating material, as applied:       °F  If the coated product goes to an oven, temperature of oven:       °F | |
| 11. Operating Details:  A. Maximum hours per day in operation:       hours  B. Maximum Usage:       gal/hr;       gal/day;       gal/yr  C. Maximum Annual Operating Hours:       hours | |

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| 12. SPRAY BOOTHS, ONLY  A. Is the booth exhaust equipped with:  Water Wash  Exhaust Filters  Baffles    Other(specify):        No means of particulate control  B. Describe the method of disposal of waste water wash or filters, and any other waste from the booth:    C. Maximum mixed paint usage:       gal/hr;       gal/day;       gal/yr  D. Complete Form AQM-1001K to describe pollutant control efficiencies and exhaust characteristics. | |
| **SECTION IV: SPECIFIC COATING OPERATIONS *(AS REFERRED-TO IN SECTION I, ITEM 1 (A THROUGH P))*** | |
| 13. Indicate the year form Items (14) and (15): | |
| 14. Parts, materials or products being coated:  A. Description of Parts:  B. Maximum Amount Coated: Hourly:       Annual: | |

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| COATING MATERIAL FOR SPECIFIC COATING OPERATIONS  15. Coating Materials: complete the table below *(use additional pages or photocopies of this, if needed):*  *(Attach MSDS sheet with the chemical composition for each coating, thinner, clean-up solvent, etc. Chemical composition should include % of each component in total VOC).* | | | | | | | | | |
| **COATING MATERIAL**  **(name or I.D.)** | **TYPE OF COATING a**  **(CODE)** | **APPLICATOR I.D. b** | **IF SOLVENT ADDED IN HOUSE c**  **TYPE** | **DATA ON COATING MATERIAL, AS EMPLOYED d** | | | | | |
| **Density**  **(lb/gal)** | **VOC Content (lb/gal)** | **Solids Content (% by volume)** | **Water Content (% by volume)** | | **Maximum Annual Usage (gal)** |
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| a. Type of Coating: Refer to the box below for the proper code to be entered into this column.  b. Use the same I.D. as used in the Applicator Data (Item 6, Section III).  c. Solvent added in-house: if the coating material is formulated with solvents at this source or thinned with solvents prior to usage, enter the name of the solvent. If the coating material is used as received, with no addition of solvents, enter NO.  d. Data on coating Material, as Employed: Report the density, VOC content, solids content, water content, and maximum annual usage of the coating material, as employed or applied. Any solvents, thinners, viscosity reducers, etc., added to the coating material, are to be included in the final material being reported. | | | | | | | | | |

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| CODE – TYPE OF COATING MATERIAL | CODE – TYPE OF COATING MATERIAL | CODE – TYPE OF COATING MATERIAL |
| AEROSPACE COATING  A1- Primer and Topcoat  A2- Depainting Operation  A3- Chemical Milling Operation  MOTOR VEHICLE REFINISHING  B1- Pretreatment  B2- Precoat  B3- Primer/Primer-Surfacer  B4- Primer-Sealer  B5- Topcoat  B6- Three-/Four-Stage Topcoat  B7- Specialty  PLASTIC PARTS COATING  C1- Automotive/Transportation  C2- Business Machines  AUTOMOBILE AND LIGHT-DUTY TRUCKS  D1- Prime Coat/Final Repair  D2- Topcoat  D3- Primer-Surfacer  D4- Electrodeposition Prime Coat | CAN COATING  E1- Sheet Basecoat and Overvarnish  E2- Exterior Basecoat and Overvarnish  E3- Interior Body Spray  E4- Exterior End Coat  E5- Side Seam Spray  E6- End-Sealing  F1- COIL COATING  G1- PAPER COATING  H1- FABRIC COATING  I1- VINYL COATING  J1- METAL FURNITURE COATING  K1- LARGE APPLIANCE COATING  L1- MAGNET WIRE COATING | MISCELLANEOUS METAL PARTS COATING  M1- Clear Coating  M2- Steel Pail and Drum Coating  M3- Air Dried Coating  M4- Extreme Performance Coating  M5- *All Other*  FLAT WOOD PANELLING COATING  N1- Printed Interior Panels  N2- Natural Finish Hardwood Plywood Panels  N3- Class II Finish on Hardwood Panels  PRINTING OPERATIONS  O1- Graphic Arts Printing  P1- Offset Lithographic Printing |

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| **SECTION V CONTROL EQUIPMENT FOR VOC** |
| 16. List the applicator I.D. Numbers for which this data is applicable: | | |
| 17. Type of control equipment *(Check the applicable box(es))*:  None  Incineration/temperature:      °F;  Adsorption, *describe*:  Condensation, *describe*:  Other, *describe*: | | |
| 18. Manufacturer or Description:  Date Installed:   /  / | | |
| 19. Control Efficiency Estimate:       %  Basis (check appropriate box):  Design Data  Emission Test Date of Test:   /  /  Other Specify: | | |

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| |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | |  | **TYPE OF FUEL** | **MAXIMUM HOURLY USAGE** | **MAXIMUM ANNUAL USAGE** | **HIGHER HEATING VALUE**  ***(specify units)*** | **% SULFUR** | **%**  **ASH** | | **Primary** |  |  |  |  |  |  | | **Secondary** |  |  |  |  |  |  |   20. If incineration is used, then complete the following fuel usage information: |

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| 21. Complete AQM-1001K |

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