

Adhesive Material Application Operation



1 **A. PROCESS DESCRIPTION**

2 Product(s)/Surface(s) Bonded: _____

3 **1) Explanation of Process**

4 What is the product? What processes are being conducted? Where will volatile organic compound (VOC) and toxic air contaminant
5 (TAC) emissions occur? Are there related processes, for example are you manufacturing with composite materials in addition to
6 coating? What steps are required? Include a process flow diagram if possible.

7 _____
8 _____

9 If this is an existing permitted process, describe the proposed modifications: _____

10 _____

11 **2) Method(s) of Surface Preparation/Cleaning of Parts and Products (provide information for all that apply):**

12 Buffing Water (e.g. washing, wet sanding, etc.) Sanding Solvent Wipe Cleaning

13 Abrasive Blasting; manufacturer's sand capacity rating (lbs or ft³) _____

14 Cold Solvent Dip Tank; liquid surface area (ft²) _____ capacity (gal) _____

15 Vapor Degreaser; liquid surface area (ft²) _____ capacity (gal) _____

16 Cold Solvent Remote Reservoir; sink cross-sectional area (ft²) _____ capacity (gal) _____

17 Other (specify) _____

18 Solvent Used _____ Daily Usage (oz) _____
(Solvent Manufacturer/Product ID Code)

19 VOC content (g/L) _____ or initial boiling point (°F/°C) _____ or vapor pressure (mm Hg) _____

20 **3) Stripping Operation**

21 Is a stripper, i.e. a volatile liquid applied to remove a maskant, paint, paint residue or temporary protective coating, proposed to be
22 used? No Yes, please complete the following information.

23 Solvent Used: _____ Daily Usage (oz): _____
(Solvent Manufacturer/Product ID Code)

24 Method of Stripping Hand Application Dip Tank; liquid surface area (ft²) _____ capacity (gal) _____

25 Other (specify) _____

26 **4) Method(s) of Application Equipment Cleanup (provide information for all that apply):**

27 Solvent Used _____ Daily Usage (oz) _____
(Solvent Manufacturer/Product ID Code)

28 VOC content (g/L) _____ or initial boiling point (°F/°C) _____ or vapor pressure (mm Hg) _____

29 Manufacturer: _____ Model No.: _____ Capacity (gal) _____

30 Spray Gun Washer

31 Totally Enclosed Container or System (describe): _____

32 Cold Solvent Dip Tank; liquid surface area (ft²) _____

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33 Vapor Degreaser; vapor air interface area (ft²) _____

34 Cold Solvent Remote Reservoir; sink cross-sectional area (ft²) _____

35 Other (specify) _____

36 Is a solvent reclamation system used? Yes No

37 If yes, provide Manufacturer: _____ Model No.: _____ Capacity (gal) _____

38 **5) Waste Handling:** Describe the storage method for solvent, waste solvent and solvent-laden rags/waste materials:

39 _____

40 **B. ADHESIVE OPERATING SCHEDULE**

41 Describe the operations schedule. Adhesive operations include the following: application of adhesive materials, masking, bonding,
42 surface preparation, stripping, and any cleaning (including equipment cleaning), drying of bonded substrates and material mixing.

43 Maximum: _____ Hrs/Day; _____ Days/Wk; _____ Wks/Yr

44 **C. EQUIPMENT DESCRIPTION**

45 **1) Method(s) of Adhesive Application:**

46 Spray Gun Brush Roller Dip Tank Flow coat

47 Other _____

Spray Gun Specifications				
Manufacturer	Model	Type	Transfer Efficiency %	Rated Capacity (gallons per hour)

48 Number of guns to be operated at the same time: _____

49 For HVLP spray guns indicate how you will demonstrate compliance with the air cap pressure limit (0.1 to 10 psig):

50 Air cap test gauge Model: _____

51 Handle inlet pressure gauge with manufacturer document available that correlates air cap pressure to handle inlet pressure

52 **2) Application Station Description:**

53 Adhesives are applied in: Outdoors Room Other _____

54 Open Faced Spray Booth (i.e. 3 walls): Enclosed Spray Booth (i.e. 4 walls) Number of Booth(s) _____

55 For Open-Faced booths, distance between the filter bank and the spray area : _____ (feet)

56 Internal Dimensions: _____ (feet) Length, _____ (feet) Width, _____ (feet) Height

57 Manufacturer: _____ Model: _____

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58 Booth to be equipped with filter(s)? No Yes, please complete the following information and submit filter manufacturer
59 specifications with application, which must include filter efficiency and associated efficiency test

60 Filter Type (or description): _____

61 Number of Exhaust Fans: _____ Exhaust Flow Rate (per fan): _____ ft³/min

62 Ventilation Type: N/A

63 Negative Ventilation (i.e. air will always be drawn into the booth)

64 Positive Ventilation with automatic pressure balancing system

65 Pressure Setting (in WC) _____

66 Booth is completely sealed Yes No

67 Mechanism to verify pressure setting: _____

68 **3) Drying Method**

69 Air Dried Oven Dried Other _____

70 If other than Air Dried, complete the following information:

71 Oven Manufacturer: _____ Model: _____ Drying Temperature: _____ °F

72 Dimensions: _____(feet) Length, _____(feet) Width, _____(feet) Height

73 Oven Power Supply: Electricity Fuel

74 If fuel, Type _____ Usage (gal/day or cfm) _____ Heat Input Rating (btu/hr) _____

75 **4) VOC Control**

76 Is any VOC control technology proposed? Yes No

77 If yes, please complete and submit supplemental application form 27I, *Control Equipment for Coating Operations*.

78 **D. ADHESIVES, SOLVENTS AND OTHER MATERIALS CONTAINING VOC's**

79 For each material used include:

80 Regulatory volatile organic compound (VOC) content (i.e. VOC content as applied less water and exempt compound)

81 Actual VOC content (i.e. VOC content as applied including water and exempt compound)

82 All components of the material, including all VOC and toxic air contaminants (TACs)

83 For multipart adhesives and coatings, include the mix ratio and the VOC content less water and exempt compounds of the mixture

84 Current Material Safety Data Sheet (MSDS), safety data sheets, technical data sheet, manufacturer's data, and/or EPA Method 24 test
85 results.

86 If any of these documents contains trade secret/proprietary information, please contact the manufacturer to obtain another supporting
87 document that provides the necessary information (i.e. VOC and TAC content, all components of each material, and CAS number).

88 Please include manufacturer's specification data sheet for each specialty coating as defined by the applicable prohibitory rule

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- 89 Complete the table below for each adhesive category used. Use additional sheets, if necessary.
- 90 Refer to District Rule 67.21(Adhesive Material Application Operations) for definitions, adhesive categories, and Rule standard limits.

Adhesive Category	Product Manufacturer	Product I.D. Number	Maximum Applied* (gal/day)	VOC Content As Applied (g/L)	Rule Standard Limit (g/L)
General Adhesive					
Specialty Adhesive					
Substrate-Specific Adhesive					
Other Adhesives					

* Maximum Applied means the amount of each material prepared for use, minus the amount of material disposed of or reclaimed.

- 91 Enter the maximum daily usage of adhesives that can be applied in this operation: _____ (gals/day)
- 92 Enter the maximum daily usage of solvents that can be used in this operation: _____ (gals/day)
- 93 Enter the maximum annual usage of adhesives that can be used in this operation: _____ (gals/year)
- 94 Please indicate if you are proposing a ten (10) pound per day VOC limit for this operation Yes No, other portions of New
 95 Source Review Rules become applicable. Contact the District for additional documentation required and a fee estimate.

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96 **F. RULE 1200 TOXICS EVALUATION**

97 **EMISSION POINT DATA** Determine if your emission source(s) are ducted sources or if they are unducted/fugitive sources and
 98 provide the necessary data below.

99 1. **Ducted or Stack Emissions** (e.g. an exhaust pipe or stack, a roof ventilation duct, etc.)

Parameter	Point #1	Point #2	Point #3	Point #4	Point #5	Point #6
Height of exhaust above ground (ft)						
Stack diameter (or length width) (ft)						
Exhaust gas flow (actual cfm) Max/Min						
Is exhaust vertical (Yes or No)						
Exhaust type (unobstructed, flapper,raincap)						
Distance to Property Line (±10 ft)						

100 2. **Unducted Emissions** (e.g. anything not emitted through a duct, pipe, or stack, for instance, an open window or an outdoor area)
 101 Are any materials applied outside of the spray booth (e.g. surface prep and polyester resins)? No Yes, describe how
 102 unducted vapors, and/or particles get into the outside air. Provide a brief description of the process or operation for each unducted
 103 emission point.

104 If unducted emissions come out of the building openings such as doors, bays or windows, estimate the **size of the opening** (example – 3
 105 ft x 4 ft window).

106 _____
 107 _____

108 If unducted emissions originate outside your buildings, estimate the **size of the emission zone** (example – paint spraying 2' x 2' x 2'
 109 bread boxes).

110 _____
 111 _____

112 **RECEPTOR DATA** provide the distance from the emission point to the nearest property line of the nearest residence and to the
 113 nearest business. If another business is located on the same property as the emission point but is not under common ownership,
 114 include the distance to this business.

115 Distance to nearest residence: _____ ft Distance to nearest business: _____ ft

116 **PLOT PLAN** Please also provide a **facility plot plan or diagram** (need not be to scale as long as the distances of key features from
 117 reference points are shown) showing the location of emission point(s) at the facility, property lines, and the **location and dimensions**
 118 **of buildings** (estimated height, width, and length) that are closer than 100 ft. from the emission point. This diagram helps by making it
 119 possible for the District to efficiently set up the inputs for health risk evaluation. Inaccurate information may adversely affect the
 120 outcome of the evaluation.

121 **Name of Preparer:** _____ **Title:** _____

122 **Phone No.:** _____ **E-mail:** _____

NOTE TO APPLICANT:

Before acting on an application for Authority to Construct or Permit to Operate, the District may require further information, plans, or specifications. Forms with insufficient information may be returned to the applicant for completion, which will cause a delay in application processing and may increase processing fees. The applicant should correspond with equipment and material manufacturers to obtain the information requested on this supplemental form