

Setting the Flow Rate

The flow rate setting is determined by:

1. Coverage Desired (the amount of coating material you desire to apply to a given area)
2. Operator Speed (the time required for an operator to spray a given area. An experienced operator can adequately spray one square meter in 3 seconds)

As an example, suppose you wish a flow rate setting to apply one litre of material to cover 200 square meters of area (5ml of nano coating material per square meter).

Using the Flow Rate Table below, find the square meters desired to be covered per litre of coating material or the desired amount of coating material to be applied per square meter. Read across to the flow gauge setting. Engage the TC-320 spraygun trigger (liquid spraying from the nozzle) adjust the flow rate regulator to the desired setting. For this example, set the flow rate to 100. At a setting of 100, coverage will be 200 square meters covered per one litre of coating material at a spraying time of 10 minutes.

With a flow regulator setting of 100, a skilled operator can apply a 5ml/sqm nano coating to an area of 1,200 square meters in one hour. The flow rate can be adjusted to meet your desired coverage. Other factors to consider could be operator experience, label recommendations or particular coatings.

Because electrostatic spraying is a much more effective coating method, we recommend you experiment to find the optimum coating coverage.

Easy Clean Up

After spraying a coating material, thoroughly flush the **Microbicide®** electrostatic sprayer, liquid hose line and spraygun.

Disconnect the liquid input line from coating container and connect to a one litre or larger "flush bottle" filled with warm water and a soapy detergent or cleaner.

Engage the spraygun trigger allowing the liquid detergent or cleaner to flow through the sprayer, liquid hose line and spraygun.

Open the flow control valve fully allowing the maximum rate of flow.

Flush one litre or more of soapy detergent or cleaner to thoroughly flush out the **Microbicide®** sprayer.

Gauge Setting	Coverage			Operator Speed (3 Sec / M ²)		Flow Rate		Application Time Mins/ Litre
	M ² / Litre	Ft ² / Litre	Ft ² / Gal	ml Applied/M ²	mg Applied/Inch ²	ml/Min	Litre/Hr	
240	83.3	896.7	3393.9	12.0	0.00774	240	14.40	4.17
230	87.0	935.7	3541.4	11.5	0.00742	230	13.80	4.35
220	90.9	978.2	3702.4	11.0	0.00710	220	13.20	4.55
210	95.2	1024.8	3878.7	10.5	0.00677	210	12.60	4.76
200	100.0	1076.0	4072.7	10.0	0.00645	200	12.00	5.00
190	105.3	1132.6	4287.0	9.5	0.00613	190	11.40	5.26
180	111.1	1195.6	4525.2	9.0	0.00581	180	10.80	5.56
170	117.6	1265.9	4791.4	8.5	0.00548	170	10.20	5.88
160	125.0	1345.0	5090.8	8.0	0.00516	160	9.60	6.25
150	133.3	1434.7	5430.2	7.5	0.00484	150	9.00	6.67
140	142.9	1537.1	5818.1	7.0	0.00452	140	8.40	7.14
130	153.8	1655.4	6265.6	6.5	0.00419	130	7.80	7.69
120	166.7	1793.3	6787.8	6.0	0.00387	120	7.20	8.33
110	181.8	1956.4	7404.8	5.5	0.00355	110	6.60	9.09
100	200.0	2152.0	8145.3	5.0	0.00323	100	6.00	10.00
90	222.2	2391.1	9050.4	4.5	0.00290	90	5.40	11.11
80	250.0	2690.0	10181.7	4.0	0.00258	80	4.80	12.50
70	285.7	3074.3	11636.2	3.5	0.00226	70	4.20	14.29
60	333.3	3586.7	13575.5	3.0	0.00194	60	3.60	16.67
50	400.0	4304.0	16290.6	2.5	0.00161	50	3.00	20.00
40	500.0	5380.0	20363.3	2.0	0.00129	40	2.40	25.00
30	666.7	7173.3	27151.1	1.5	0.00097	30	1.80	33.33
20	1000.0	10760.0	40726.6	1.0	0.00065	20	1.20	50.00

TC-320 Operator Manual

Microbicide® Electrostatic Sprayer Systems

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