

POWDER COATINGS COST CHART

Chart showing the cost per unit area (\$/ft²) of powder coatings at a transfer efficiency of 100%

Thickness of cured film (mils)

	1	2	3	4	5	6	7	8	9	10
1	0.0052	0.0104	0.0156	0.0208	0.0260	0.0312	0.0364	0.0416	0.0468	0.0520
2	0.0104	0.0208	0.0312	0.0416	0.0520	0.0624	0.0728	0.0832	0.0937	0.1041
3	0.0156	0.0312	0.0468	0.0624	0.0780	0.0937	0.1093	0.1249	0.1405	0.1561
4	0.0208	0.0416	0.0624	0.0832	0.1041	0.1249	0.1457	0.1665	0.1873	0.2081
5	0.0260	0.0520	0.0780	0.1041	0.1301	0.1561	0.1821	0.2081	0.2341	0.2601
6	0.0312	0.0624	0.0937	0.1249	0.1561	0.1873	0.2185	0.2497	0.2810	0.3122
7	0.0364	0.0728	0.1093	0.1457	0.1821	0.2185	0.2549	0.2914	0.3278	0.3642
8	0.0416	0.0832	0.1249	0.1665	0.2081	0.2497	0.2914	0.3330	0.3746	0.4162
9	0.0468	0.0937	0.1405	0.1873	0.2341	0.2810	0.3278	0.3746	0.4214	0.4683
10	0.0520	0.1041	0.1561	0.2081	0.2601	0.3122	0.3642	0.4162	0.4683	0.5203
11	0.0572	0.1145	0.1717	0.2289	0.2862	0.3434	0.4006	0.4579	0.5151	0.5723
12	0.0624	0.1249	0.1873	0.2497	0.3122	0.3746	0.4370	0.4995	0.5619	0.6244
13	0.0676	0.1353	0.2029	0.2706	0.3382	0.4058	0.4735	0.5411	0.6087	0.6764
14	0.0728	0.1457	0.2185	0.2914	0.3642	0.4370	0.5099	0.5827	0.6556	0.7284
15	0.0780	0.1561	0.2341	0.3122	0.3902	0.4683	0.5463	0.6244	0.7024	0.7804
16	0.0832	0.1665	0.2497	0.3330	0.4162	0.4995	0.5827	0.6660	0.7492	0.8325
17	0.0884	0.1769	0.2653	0.3538	0.4422	0.5307	0.6191	0.7076	0.7960	0.8845
18	0.0937	0.1873	0.2810	0.3746	0.4683	0.5619	0.6556	0.7492	0.8429	0.9365
19	0.0989	0.1977	0.2966	0.3954	0.4943	0.5931	0.6920	0.7908	0.8897	0.9886
20	0.1041	0.2081	0.3122	0.4162	0.5203	0.6244	0.7284	0.8325	0.9365	1.0406
21	0.1093	0.2185	0.3278	0.4370	0.5463	0.6556	0.7648	0.8741	0.9834	1.0926
22	0.1145	0.2289	0.3434	0.4579	0.5723	0.6868	0.8013	0.9157	1.0302	1.1446
23	0.1197	0.2393	0.3590	0.4787	0.5983	0.7180	0.8377	0.9573	1.0770	1.1967
24	0.1249	0.2497	0.3746	0.4995	0.6244	0.7492	0.8741	0.9990	1.1238	1.2487
25	0.1301	0.2601	0.3902	0.5203	0.6504	0.7804	0.9105	1.0406	1.1707	1.3007
26	0.1353	0.2706	0.4058	0.5411	0.6764	0.8117	0.9469	1.0822	1.2175	1.3528
27	0.1405	0.2810	0.4214	0.5619	0.7024	0.8429	0.9834	1.1238	1.2643	1.4048
28	0.1457	0.2914	0.4370	0.5827	0.7284	0.8741	1.0198	1.1655	1.3111	1.4568
29	0.1509	0.3018	0.4527	0.6035	0.7544	0.9053	1.0562	1.2071	1.3580	1.5088
30	0.1561	0.3122	0.4683	0.6244	0.7804	0.9365	1.0926	1.2487	1.4048	1.5609
31	0.1613	0.3226	0.4839	0.6452	0.8065	0.9677	1.1290	1.2903	1.4516	1.6129
32	0.1665	0.3330	0.4995	0.6660	0.8325	0.9990	1.1655	1.3319	1.4984	1.6649
33	0.1717	0.3434	0.5151	0.6868	0.8585	1.0302	1.2019	1.3736	1.5453	1.7170
34	0.1769	0.3538	0.5307	0.7076	0.8845	1.0614	1.2383	1.4152	1.5921	1.7690
35	0.1821	0.3642	0.5463	0.7284	0.9105	1.0926	1.2747	1.4568	1.6389	1.8210
36	0.1873	0.3746	0.5619	0.7492	0.9365	1.1238	1.3111	1.4984	1.6857	1.8731

How to use this chart:

1. Calculate the cost index by multiplying the price of the powder coating (\$/lb) by the specific gravity of the powder coating.
2. Determine the desired thickness of the cured film (mils).
3. Find the cost per unit area (\$/ft²) at the intersection of the closest value for the cost index and the thickness of the cured film.
4. For a transfer efficiency lower than 100% (or if a more precise value is needed or if your data exceed the chart's data), use the following equation:

$$\text{Cost per unit area (\$/ft}^2\text{)} = \frac{\text{Cost index} \times \text{Film thickness (mils)}}{1.922 \times \text{Transfer efficiency (\%)}}$$

Example: Powder coating with price of \$6 per pound, specific gravity of 1.5, film thickness of 4 mils, and transfer efficiency at 95%

$$\begin{aligned} \text{Cost index} &= 6 \times 1.5 = 9 \\ \text{Cost per unit area} &= \frac{9 \times 4}{1.922 \times 95} = 0.1972 \text{ \$/ft}^2 \end{aligned}$$

Source: Protech Chemicals, Montreal, Quebec, CD