

Powder Coating Cost per Part

How-to guide: what the workbook does, how to use it and what every number means.

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Powder Coating Cost per Part

Cost every powder coating job from part area, film build, transfer efficiency and line time, and check each quoted price against your target margin.

For: Job coaters, finishing line managers, estimators and fabricators who run an in-house powder line.

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Quick start

1. On Setup, choose m2 or ft2 and um or mil, and type your currency, labour rate, line crew, line cost per hour and target margin.
2. List your powders with price per kg or per lb and specific gravity from the data sheet.
3. On Coating Jobs, add one row per job: powder, good parts, area per part, film thickness, transfer efficiency and parts per hour.
4. Add colour change and handling minutes, masking materials, reject rate and price; read cost per part, margin and status, and fix anything Check reports.
5. Open the Dashboard: margin against target, where the cost goes and the powder each job uses.

What is in the workbook

Start Here	Read this first: what the workbook does and how to use it.
Setup	Currency, units, labour and line rates, target margin, and the powders you spray.
Coating Jobs	One row per coating job: part area, film build, transfer efficiency, line rate, handling and price.
Dashboard	Margin against target, where each job's cost goes, and the powder and line time the jobs use.
Method	How every number is calculated, with assumptions, limits and sources.
Verify	Self-check: the workbook's formulas recomputed on fixed inputs against an independent reference.

What each number means

Quantity	How it is calculated	Units
Cost per kg (Setup)	Price per kg, or price per lb / 0.45359237.	currency/kg
Powder (g/part)	Area (m2; ft2 x 0.09290304) x film (um; mil x 25.4) x specific gravity / transfer efficiency.	g
Parts coated	ROUNDUP(good parts / (1 - reject rate)).	parts
Powder used	Grams per part x parts coated / 1000.	kg

Quantity	How it is calculated	Units
Line hours	Parts coated / parts per hour + colour change minutes / 60.	h
Powder, masking cost	Powder used x cost per kg / good parts; parts coated x masking materials / good parts.	currency/part
Line cost	Line hours x line cost per hour / good parts.	currency/part
Labour cost	(Line hours x crew + parts coated x handling minutes / 60) x labour rate / good parts.	currency/part
Cost per part	Powder + masking + line + labour cost, per good part.	currency/part
Margin and status	(Price - cost per part) / price. On target at or above target, Near target within 5% of it, else Below target.	%
Job cost, value, margin	Cost per part, price and price - cost per part, each x good parts.	currency/job
Weighted margin	Sum of job margin / sum of job value over priced jobs (not an average of percentages).	%
By powder	COUNTIF and SUMIFS by powder; spend = kg used x the powder's cost per kg; margin = margin sum / value sum.	mixed

Assumptions, limitations, sources and the self-check (the Verify sheet, which recomputes the workbook's formulas on fixed test inputs) are in the workbook. The last page shows the Dashboard with the example data for Brightline Coatings, a fictional business.

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Engineering estimates for planning and improvement work. Verify the results against your own process, data and standards before you rely on them.

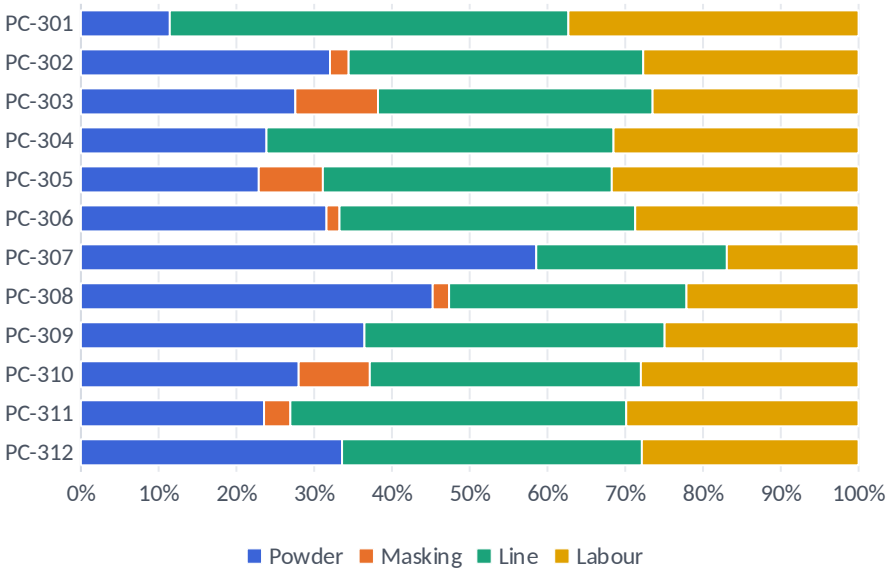
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Margin against target, where each job's cost goes, and the powder and line time the jobs use.

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WEIGHTED MARGIN ON PRICE	JOBS BELOW TARGET MARGIN	POWDER USED (KG)	LINE HOURS BOOKED
29.6%	2	411.0	30.3
Target 30.0%	Margin status on Coating Jobs	Parts coated x grams per part	Coating time plus colour changes
Near target			

Where the cost of each part goes



Margin on price by job

