# Potting Compound Cost

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

# Potting Compound Cost

Cost every potting job per assembly from the compound its fill volume takes, the dispense labour and the cure and overhead, against the quoted potting price and your target margin.

For: Process and cost engineers, estimators and production managers potting and encapsulating electronic assemblies.

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## Quick start

1. On Setup, type your company, currency and target margin, and list your compounds with their density, price per kg and mixing waste.
2. On Jobs, give each potting job a row: compound, assemblies, fill volume per assembly, dispense labour and setup, cure and overhead, and the quoted price per assembly.
3. Fix anything the Check column names.
4. Open the Dashboard: where each assembly's potting price goes and its margin against your target.

## What is in the workbook

| | |
|---|---|
| **Start Here** | Read this first: what the workbook does and how to use it. |
| **Setup** | Company, currency, target margin and near band, and the potting compounds with their density, price and mixing waste. |
| **Jobs** | One row per potting job: volume, labour, overhead and price in; compound used, cost per assembly and margin out. |
| **Dashboard** | Where every assembly's potting price goes, compound, labour and overhead, and its margin against your target. |
| **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 |
|---|---|---|
| **Compound per assembly** | Fill volume x density x (1 + mixing waste). | g |
| **Compound cost each** | Compound per assembly / 1,000 x price per kg. | currency |
| **Compound used** | Compound per assembly x assemblies / 1,000. | kg |
| **Compound cost** | Assemblies x compound cost each. | currency |

| Quantity | How it is calculated | Units |
|---|---|---|
| **Total cost** | Compound cost + labour and setup + cure and overhead. | currency |
| **Cost per assembly** | Total cost / assemblies. | currency |
| **Margin** | (Quoted price - cost per assembly) / quoted price. | % |
| **Status** | On target at or above the target margin; Near target within the near band under it; Below target further under. | - |

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 Ardmore Power Electronics, 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.

# Potting Compound Cost

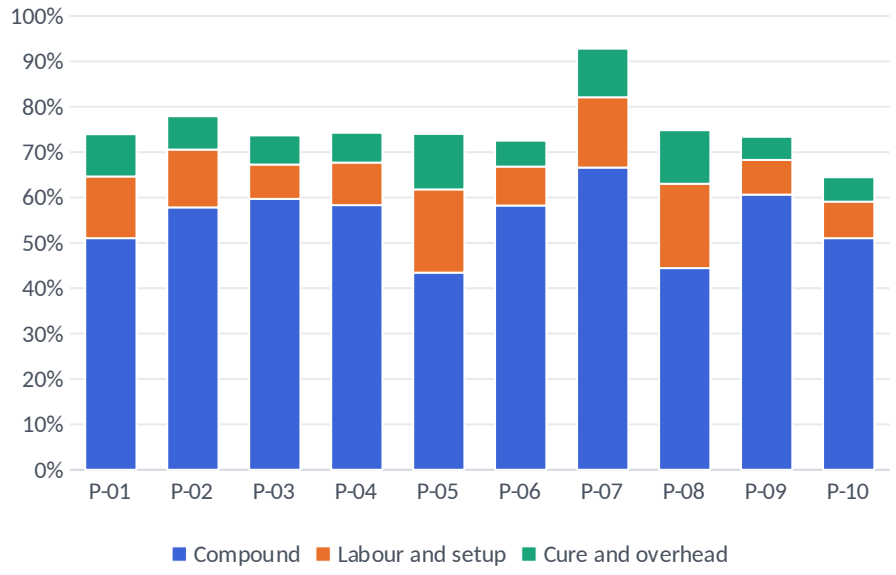
*Where every assembly's potting price goes, compound, labour and overhead, and its margin against your target.*

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*Ardmore Power Electronics (example): 10 jobs, 7,480 assemblies in 3 compounds. Target margin 25%. Amounts in USD.*

| JOBS | POTTING COST (USD) | COMPOUND USED (KG) | JOBS BELOW TARGET MARGIN |
|---|---|---|---|
| 10 | 29,477 | 1,283.5 | 1 |
| Rows on Jobs | Compound, labour and overhead | With mixing waste | Status Below target |

## Cost per assembly as a share of price




## Margin above (+) or below (-) target

