Adhesive Pot Life Log

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

Adhesive Pot Life Log

Log every mixed batch of two-part adhesive: what the line dispenses before the pot life closes, the waste and its cost, and the batch size that would fit.

For: Process engineers, production supervisors and operators mixing two-part epoxies, polyurethanes and potting compounds.

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Quick start

1. On Setup, type your plant and currency, list your adhesives with their qualified pot life and price per kg, and your lines.
2. On Batches, give each mixed batch a row: date, batch, line, adhesive, mixed mass, dispense rate and the time from mixing to the start of dispensing.
3. Fix anything the Check column names.
4. Open the Dashboard: used and wasted adhesive by line, and the batch size each line should mix.

What is in the workbook

Start Here	Read this first: what the workbook does and how to use it.
Setup	Plant, currency, the adhesives with their qualified pot life and price, and the lines.
Batches	One row per mixed batch: mass, dispense rate and time to start in; usable mass, waste and largest usable batch out.
Dashboard	Adhesive used and wasted at pot life by line, and the batch size each line can use in time.
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
Remaining time	Pot life - time from mixing to the start of dispensing, not below 0.	h
Largest usable batch	Dispense rate x remaining time.	g
Usable mass and waste	The smaller of mixed mass and largest usable batch; mixed mass - usable mass.	g

Quantity	How it is calculated	Units
Usable share	Usable mass / mixed mass.	%
Status	Out of limits when any of the batch is left at the end of the pot life; otherwise Within limits.	-
Waste cost	Waste / 1,000 x price per kg.	currency

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 Halden 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.

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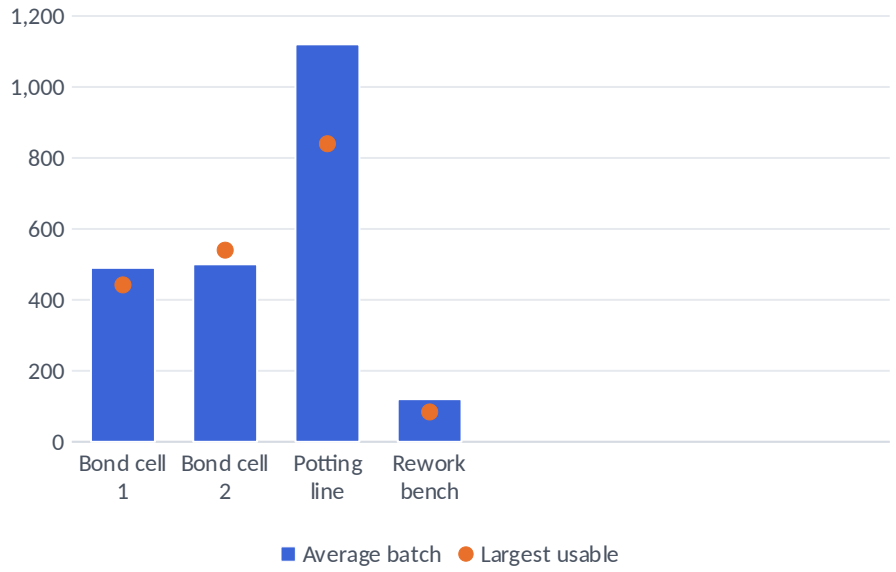
Adhesive used and wasted at pot life by line, and the batch size each line can use in time.

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Halden Electronics (example): 16 batches on 4 lines, 9.9 kg mixed. Amounts in USD.

BATCHES	MIXED (KG)	WASTE AT POT LIFE (KG)	WASTE COST
16	**9.91**	**1.92**	**54**
Rows with a usable mass	Both parts, all batches	Left when the pot life closed	Waste x price per kg

Average batch against largest usable (g)



Adhesive used and wasted by line (g)

