

PLM that speaks formulation

FORMULATION PLM



Formulation PLM manages the product lifecycle on the formulation and the process that makes it, from first experiment to commercial launch, through every reformulation, cost-down and market variant that follows.

DEFINE

Hold formulations, bills of materials, specs and documents in one shared record with a full audit history.

APPROVE

Phase reviews need a set number of approvals before a formulation moves on. Lock approved formulations with e-signatures.

HAND OFF

Approval can create the QC spec and lock the formulation. The API syncs it to your ERP, with its ESG attributes.

WB-200 Exterior acrylic satin			
		WB-200 Exterior acrylic satin	WB-201 Cost-down, TiO2 19%
▼ Premix ▼			
≡ Dispersant	Dispersant 1	0.8 g	0.8 g
≡ Intermediates	Thickener Blend TB-1 >	1 g	1 g
≡ Solvent	Water	24.4 g	24.4 g
	Step Total	26.2 g	26.2 g
≡ Mixing	① Mixing Temperature	25 °C	25 °C
▼ Grind ▼			
≡ Defoamer	Mineral Oil Defoamer	0.2 g	0.2 g
≡ Extender	Calcined Clay	5.8 g	8.2 g
≡ Pigment	Titanium Dioxide	21.4 g	19 g
	Step Total	27.4 g	27.4 g
≡ Mixing	Mixing Speed	2500 RPM	2500 RPM
▼ Thindown ▼			
≡ Binder	Acrylic Latex	40.8 g	40.8 g
≡ Coalescent	Ester Alcohol Coalescent	2.1 g	2.1 g
≡ Intermediates	Defoamer Blend DB-1 >	0.1 g	0.1 g
	Step Total	43 g	43 g
▼ Filling ▼			
≡ Binder	Acrylic Resin	2.2 g	2.2 g
≡ Biocide	Preservative Biocide	0.1 g	0.1 g
≡ pH Adjuster	Amino Methyl Propanol	0.2 g	0.2 g
≡ Thickener	HEUR Thickener	0.9 g	0.9 g
	Experiment Total	100 g	100 g
▼ Calculations ▼			
① Formula Cost		1.99 \$/kg ①	1.91 \$/kg ①

BILL OF MATERIALS

The recipe and how it is made

Process stages

Each ingredient sits in its stage: premix, grind, thindown, filling.

Sub-recipes

Find every formulation that uses an ingredient, at every sub-recipe level.

Rolled-up cost

A cost calculation you configure, run from the recipe and unit costs.

CHECKED AGAINST SUBSTANCE LISTS

REACH

CLP Annex VI

A coatings formulation and its cost-down variant in Uncountable, by process stage, with two sub-recipes and the calculated cost per kg (synthetic demo data).

THE UNCOUNTABLE PLATFORM

Research & Development
 Quality
 Product Lifecycle
 Regulatory Management
 Project Portfolio Management

Uncountable's AI-native end-to-end platform is deployed by 175+ product development teams.



WHY FORMULATION PLM

Assembly PLM has the formula. The plant has the recipe.

Traditional PLM was built for assemblies, where you count parts. It stores an approved formula, and how the product is actually made lives in a spreadsheet beside it: sub-recipes, order of addition, mixing and cure conditions. So one base formula becomes ten SKUs nobody can trace, no one can quickly say which products use a given ingredient, and the document on the line may not be the one that was approved.

HOW IT WORKS IN PRACTICE

Stage-gate approvals in one system

Phase reviews need a set number of approvals before a formulation moves on.

The recipe and how it is made

Order of addition, mixing and cure conditions held with the formulation, not beside it.

One source of truth

R&D, quality and manufacturing work from the same record, with a full audit history.

Locked once approved

E-signatures, recipe locks and permissions control who can change an approved formulation.

WHAT SETS UNCOUNTABLE APART

Quantities that balance

Quantities are proportions that have to balance, not parts you count.

The development layer

Traditional PLM records the approved formula. We also capture how each formulation was developed.

Bodie AI Agent

Ask Bodie to search your records, read the details of a record, and query your data with a link to the full results.

Regulatory checks on the formulation

Check each formulation against REACH and CLP substance lists.

46%

faster formula reviews, saving 34 hours per review

Behr Paint Company

"Prior to Uncountable, our teams relied on multiple systems to support data management and production related approvals."

Greg Williams, Director of Sustainability & Digital Informatics, Behr Paint Company

Example: taking a formulation through approval

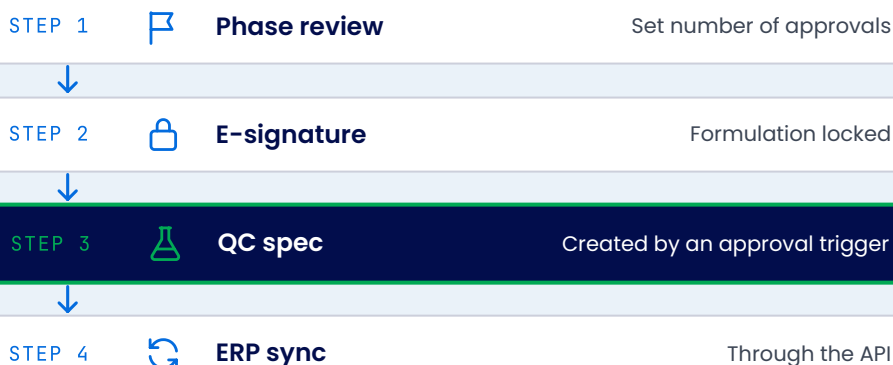
One record, followed from phase review to hand-off.

REVIEW

A coatings formulation finishes development and goes to phase review.

RESULT

The formulation is locked, its QC spec exists, and your ERP has it.



Book a demo

Your product is a recipe. Your system of record should be too. Bring one formulation and see it on your own product record.



SCAN TO BOOK

Book a demo →