

One platform for coatings, from premix to spec

Summary



Take a coating from raw material to tested formula in one connected workspace. Build staged formulas, compare variants, capture results and check every property against spec, with each result linked to the formula and test conditions behind it.

Six suites on one platform



R&D

Formulas, test results and suggested experiments in one place.



Quality

Check results against spec, with control charts that flag drift.



PLM

Move products through phases with reviews, approvals and versions.



Regulatory Management

Check each formula against regulatory limits for each ingredient.



Project Management

Plan projects and lab requests, and book lab equipment.



Bodie AI Agent

Ask Bodie to plot formulation data from a plain-language request.

		SA-301 Control	SA-302 High TiO2
▼ Premix	+	↓	↓
= Binder	Alkyd Resin	18 g	18 g
= Dispersant	Dispersant 1	0.8 g	0.8 g
= Solvent	⊙ Xylene	5 g	5 g
	Step Total	23.8 g	23.8 g
▼ Grind	+	↓	↓
= Pigment	Titanium Dioxide	22 g	24 g
= Thixotrope	Fumed Silica 1	2.2 g	2 g
	Step Total	24.2 g	26 g
▼ Thindown	+	↓	↓
= Binder	Alkyd Resin	22 g	22 g
= Drying Agent	Cobalt Octoate	1 g	1 g
= Solvent	⊙ Xylene	10 g	10 g
= Uncategorized	⊙ Licowax PE 520	0.6 g	0.6 g
	Step Total	33.6 g	33.6 g
	Experiment Total	81.6 g	83.4 g
▼ Calculations	+		
⊙ Formula Cost	⊕	3.49 \$/kg ⊙	3.49 \$/kg ⊙
⊙ Volume	⊕	67.1 mL ⊙	67.5 mL ⊙
⊙ Density	⊕	1.22 g/mL ⊙	1.24 g/mL ⊙
⊙ Wt% Solids	⊕	65.3 % ⊙	66.1 % ⊙
⊙ Vol% Solids	⊕	53.8 % ⊙	54.1 % ⊙
⊙ Pigment Weight Concentration	⊕	27 % ⊙	28.8 % ⊙
⊙ Pigment to Binder Ratio	⊕	0.55 ⊙	0.6 ⊙

Two satin alkyd variants side by side, with premix, grind and thindown stages and calculated cost, density and solids.

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



Built for formulators

From raw material to tested formula

Uncountable keeps coatings data in the structure your lab already uses. What can it do for your formulation team?

Formulate by mix stage

Split formulas into stages such as premix, grind and thindown, each with its own ingredients.

Record test conditions

Store gloss, viscosity and film thickness with conditions such as cure temperature.

Trace raw material lots

Assign lots to formula inputs, so each result traces back to the lots behind it.

Reuse grind bases

Use one grind base as an ingredient in many formulas. Uncountable expands it into its raw materials.

Keep full curves

Save complete curves, such as viscosity against shear rate, with each formula.

Machine learning for DOE

Uncountable suggests the next formulas to test. SCG Chemicals reports 45% less DOE workload.

Calculate as you formulate

Weighted averages of raw material attributes give formula cost, density and solids.

Import instrument files

Uploaders read instrument exports, such as color measurement files, into results.

Ask Bodie in plain language

Bodie plots your data from a plain-language request. Your formulation data never trains foundation models.

Check every variant against spec

Set a target range for each property, and see which results meet it before you scale up.

Input

Test results for each variant

Result

Each value marked in or out of spec

		SA-301 Control		SA-303 Low solvent	
		Measurements	Assigned Spec: Satin Alkyd Spec	Measurements	Assigned Spec: Satin Alkyd Spec
▼ Rheological	+ ...				
	Viscosity (Pa.s) >	1.9	∈ [1.5, 2.5]	2.8	∈ [1.5, 2.5]
▼ Coating	+ ...				
	Dry Film Thickness (µm) >	40	≥ 38	43	≥ 38
	Gloss (GU) >	41	∈ [35, 45]	47	∈ [35, 45]
	Haze (HU) >	21		19	
	Yellow Index (Unitless) >	4.2	≤ 5	5.4	≤ 5

See Uncountable work on your own formulas.

Book a personalized demo and we'll show you how Uncountable applies to your coatings lab.



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uncountable.com/contact-us