

Uncountable's R&D Solution: Paints & Coatings

Accelerate Development with our All-in-One Software for Enterprise R&D Teams

Uncountable is the leading provider of an integrated ELN+LIMS software solution for enterprise R&D in coatings materials and technologies. Data generated throughout the entire product development process can be captured in one system, in a highly interconnected and structured format, enabling complex data visualization, analysis, and predictions with user-friendly, built-in tools.

CONNECT & CENTRALIZE: ALL YOUR R&D DATA AND INSIGHTS IN ONE PLACE

MATERIAL SYNTHESIS



FORMULATION DEVELOPMENT



ANALYTICAL MEASUREMENTS



PRODUCT DURABILITY

RESEARCH AREAS: A FEW OF MANY AREAS OF FOCUS

Uncountable's expertise aligns with the needs of R&D teams in leading coatings companies, providing advanced solutions across the entire development pipeline – including these four key areas:

Polymers, Resins, & Binders

- Increase yields across the synthetic pathway from R&D to pilot
- Discover trends in structure for refined thermal, mechanical, and chemical properties
- Optimize resin polymerization and curing processes

Additive Synthesis

- Synthesize new molecules & characterize functionality
- Enhance coating properties and minimize defects across application
- Balance performance enhancement with in-line cost considerations

Coatings Development

- Develop formulations for specified performance targets & metrics
- Enhance corrosion and chemical resistance while maintaining gloss, adhesion, and low VOC concentration
- Identify and optimize highthroughput screening conditions across multiparametric formulations

Sustainable Solutions

- Adhere to regulatory guidelines via ingredient replacement studies
- Improve function of solvent-borne and waterborne systems for widespread applications
- Integrate & visualize realtime data analytics for process optimization in formulation & application



KEY DATA INSIGHTS: COLLECTION TO ANALYSIS

Process Data

- Easily document detailed coating production parameters & conditions
- Automate data intake from sensors & control systems
- Utilize performance metrics to identify and mitigate process inefficiencies

Formulation Data

- Access to comprehensive formulation composition & compliance data
- Correlate physical & chemical property data correlated to formulation
- Easily test and track stability and durability

Data Ingestion

- Bi-directionally connect with all major instrument & equipment vendors:
 - Spectroscopy
 - Rheology
 - Color Matching
 - Microscopy
 - Weatherability Data
 - Environmental Analysis

Data Centralization

- Consolidate data in one place, from raw ingredients, inventory, and instrument scheduling to production line
- Calculate cost, solids %, & VOC concentration without external programs

OPERATIONAL INSIGHTS: STREAMLINED LAB MANAGEMENT

Work **Assignments**

- Efficiently allocate & track tasks across all R&D orgs.
- Get real-time updates regarding project status
- Monitor productivity and

Exposure Panel Testing

- Automate scheduling and monitoring of weathering data & studies
- Track testing conditions and
- robust data analysis tools to

Technical Service Requests

- Centralize management of all technical support & service inquiries
- End-to-end tracking across request status, history,
- Integrate with knowledge bases & documents

Sample Management

- Streamline tracking of formulations and test samples from creation through analysis
- Integrate barcode and RFID technologies for efficient sample handling

TRUSTED BY HUNDREDS: PARTNERING WITH CUSTOMERS ACROSS THE INDUSTRY



























WANT TO LEARN MORE?

To learn more about Uncountable's platform, visit <u>www.uncountable.com</u>, or schedule your free personalized platform demo today!

