Concrete.ai

Concrete Copilot:
UNLOCKING THE POWER OF YOUR DATA

A simple, fast, and flexible decision-making tool to optimize concrete performance, cost-savings, and carbon reductions.

Performance Prediction

Ready-mix producers are increasingly experiencing complex and unreliable supply chains with constant materials changes. It can result in making quick adjustments or limiting the time needed to perform the optimal analysis to assess how these raw material changes affect your product's performance. Over time, these constant changes result in suboptimal mix designs.

Concrete.ai helps address this problem with our flexible, easy-to-use software that allows your team to optimize mix designs in a matter of minutes. Using the power of big data, we seamlessly tap into your historical data of local materials and identify designs and proportions for the optimal concrete for any construction application.

Manage Costs

Fluctuations in raw material costs add additional complexity to reliably maintain the most cost-effective products. Our software allows you to quickly re-optimize any mix at your current costs and availability of materials to maximize your bottom line, while meeting all design criteria.
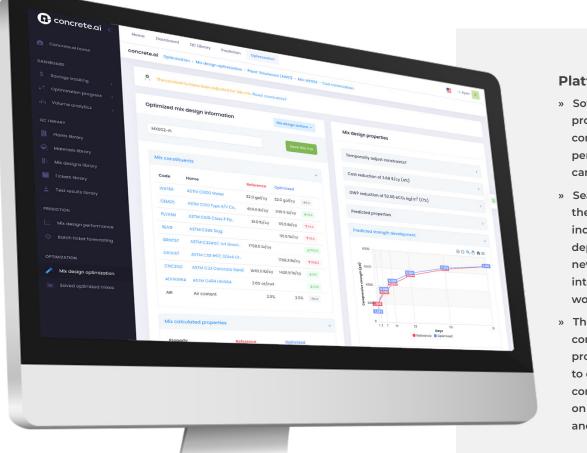
Reduce Carbon Footprint

We recognize that you are seeing increased demand for 'greener' concrete with a lower carbon footprint, while not compromising performance. By performing calculations on millions of different possible combinations of materials in seconds, our platform can find the most efficient concrete design that maximizes the performance of your materials with a reduced embodied concrete footprint.

Power in Your Hands

Unlike common software solutions that deliver "one-size-fits-all" platforms with limited options for QA team input, we believe the final decision-making needs to be in your hands. As a result, we have merged what big data and AI does best – to take enormously, complex data and process it in real-time – with the best of what experienced engineers and concrete professionals offer – human judgement – creating a new pathway to optimized mix designs.

A New Pathway to Optimized Mix Design

Concrete Copilot: A Closer Look

Concrete.ai's Concrete Copilot provides an easy-to-use interface for the concrete producer. The AI-driven software uses the concrete producer's own rich data, and its active decision-making tool engages users to see all predicted properties, apply constraints, and set performance, cost, and embodied carbon goals. This results in advanced, real-time design options – from mix refinements to new, original formulations.

Platform Benefits

» Software allows concrete producers to optimize concrete mixes for performance, cost, and carbon reductions.

» Seamlessly integrates into the producer's existing industry software and deploys changes, such as new materials, immediately into the producer's workflow process.

» The concrete producer is in complete control of the process. They choose what to optimize and what constraints to apply based on their unique situation and business objectives.

How do I get started?

Ready to adopt Concrete.ai's Concrete Copilot? Our onboarding begins with us connecting to your existing QC and batching software to securely collect the data and build the custom algorithms for your local materials and unique business constraints. No need to send us raw materials — we build our algorithms based on the data you have already been collecting for years. Our algorithms are loaded into the webapp, and you are given a login to personally interact with your platform and optimize your mixes. This approach allows the computer to do what it does best – mass calculations – while you apply your judgment based on your knowledge of your materials, performance, cost, and carbon reduction goals.

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