

smart concrete



A Novel Value-Added Solution for Ready-Mix Producers

smart concrete enables producers to achieve:

- Up to 20% increase in profitability
- Brand differentiation in local market
- Further expansion and market share
- Better customer loyalty
- Mix performance optimization

What Is smart concrete?

Smart concrete is a value-added solution offered by ready-mix producers to the contractors who want to know the strength of concrete in real-time on their jobsites.

Concrete mixes from ready-mix producers can be upsold as Smart™ mixes to the construction companies. Contractors install wireless sensors in the formwork and download the dedicated ready-mix producer's app to connect to the sensor. Once connected, they are able to obtain real-time temperature and strength results on their job site.

Upsell Revenue

All of the producer's structural concrete mixes can be upsold as Smart™ mixes using the smart concrete value-added solution. Ready-mix producers only need to calibrate their mixes based on the maturity method (ASTM C1074) and upload them to the smart concrete cloud.



Real-Time Strength

Contractors install smart concrete sensors in the formwork and select the name of the ready-mix producer in the smart concrete app. They can then select the name of the mix from the list of Smart™ mixes to obtain and share real-time concrete temperature and strength data on the job site. This information helps contractors optimize critical operations such as formwork removal, post-tensioning, and opening roads to traffic.





“Stoneway has successfully offered smart concrete to construction companies in Seattle working on high-rise structures and concrete pavements. Contractors immediately see the value as they can obtain real-time strength information on the jobsite through this novel mobile-based technology.”

Greg McKinnon
Operations Manager - Stoneway Concrete

Jobsite Mix Performance

Smart concrete, as an IoT solution in the concrete industry, combines wireless sensors with mobile and cloud applications to make field data available for ready-mix producers. This data can be used for the smart analysis of concrete performance in order to optimize mix designs.

In addition, ready-mix producers will benefit from:

- Online access to jobsite data
- Project-based mix performance results
- Field data to reduce cement usage
- Mix calibration submittals

Smart concrete makes the construction practice more efficient by offering:

- Wireless connectivity
- Mobile-based data collection
- Labor cost reduction
- Quick decision making
- Elimination or decrease in break tests



Increase Market Share



Upsell Revenue



Real-Time Strength



Jobsite Mix Performance