

i-con™



Confidence built in



Intelligent concrete monitoring



Faster. Smarter. Better.

Accelerate your next project with i-Con intelligent concrete monitoring.

Cemex i-Con is a digital solution, that brings wireless, real-time visibility over the strength and temperature of concrete during the curing process, enabling you to make dynamic, smarter and more accurate project decisions.

The sensors send real-time readings to a digital app, accessible on your smartphone or other devices giving you insight into the best time to apply loads, remove formwork, and make decisions to optimise your project delivery.



Reduce waiting times, optimise project delivery and ensure quality.



Real-time data monitoring for your concrete strength and temperature



Deeper insights to make informed decisions without relying on third-party testing.



Part of our suite of digital tools designed to improve productivity, profitability, and sustainability.



Data generated from Cemex i-Con integrates into BIM projects.



Strength

Cemex i-Con works with smart sensors, enabling you to monitor your concrete placement in real-time, directly from your phone. This eliminates the need to rely on field-cured cubes, potentially enabling you to complete your project ahead of schedule and under budget.



Temperature

Cemex i-Con provides a simple solution to monitor the maximum and minimum temperature, as well as temperature differential of your concrete placement.

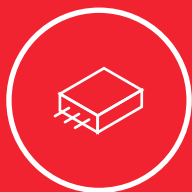
Accelerate your projects

Cemex i-Con is suitable for all concrete construction projects, especially those requiring rapid strength gain, early-age strength visibility, and in hot or cold weather.

Visibility of compressive strength and temperature, making it ideal for various projects:



Early formwork removal and fast cycle times.



Post tensioning and high early strength concrete



Cold and hot weather concreting



Mass concrete pours

Ideal for various projects including:



High-rise buildings



Crane bases



Cast-in-place concrete construction



Bridges



Tunnels



Precast

Confidence built within



Confidence to specify Lower Carbon Concretes:

Cemex i-Con's strength monitoring provides dynamic access to early age strength of all concrete mixes, bringing visibility and confidence to the exciting opportunities presented with Vertua lower carbon solutions including multi-composite cements.



Learn more at

cemex.co.uk/vertua-lower-carbon-products-and-solutions

Did you know?

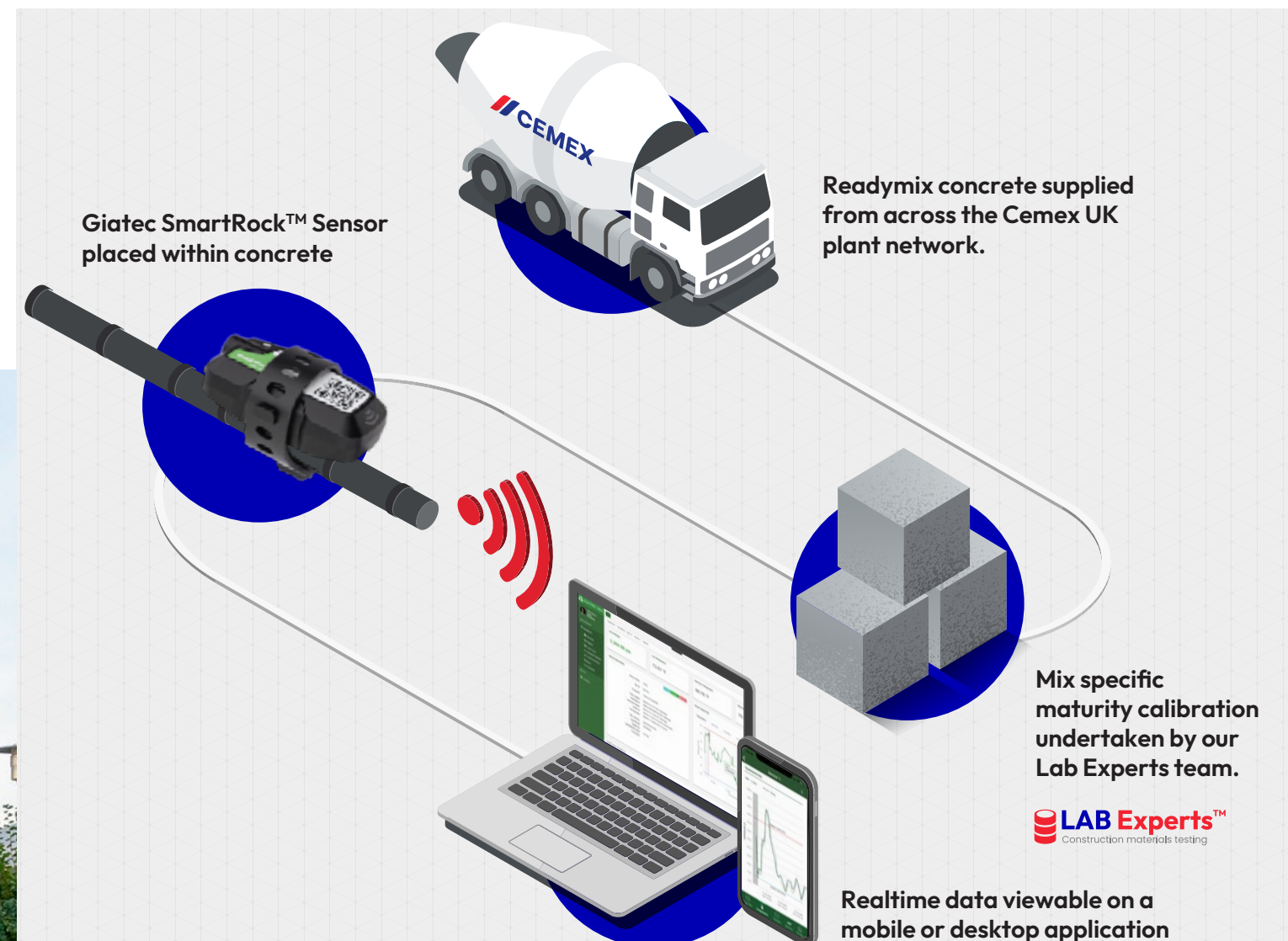
The BS 8500 standard has been updated. The revised standard allows for the replacement of Portland Cement with other composite materials; now making it easier to specify and adapt lower carbon concretes.



The full digital solution to measure concrete temperature and strength

With Cemex i-Con, users can access a full package solution:

- Readymix concrete supplied from across the Cemex UK plant network.
- Mix specific maturity calibration undertaken by our team of UKAS accredited technical experts.
- Full training on the solutions.
- Sensors delivered to the job site.
- Access to and training on the monitoring and reporting system.





Our Readymix Solutions

Cemex Readymix offers a complete range of market-leading concrete mixes designed to meet every application in the commercial, industrial, and civil sectors.

Our technical advisors can help you find the ideal product for your needs. Cemex i-Con supports projects across all our concrete mixes.



Promptis

i-Con is particularly useful for rapid setting concrete jobs and is recommended for use when using Cemex Promptis, a rapid hardening concrete solution, offering:

- Fast formwork removal leading to increased productivity.
- Capable of delivering up to 40N of strength in just 24 hours.
- Poured quickly and with minimum disruption.
- Easy to compact and finish.

Learn more at
cemex.co.uk/promptis-fast-setting-concrete

Maturity Calibration

Maturity calibration establishes a relationship between maturity and strength for a specific mix.

The calibration can be used to determine the in-place strength of the concrete.

As part of Cemex i-Con's full digital package, we perform the maturity calibration for you, uploading these results into the app.



i-Con Sensors and App



Cemex i-Con uses simple and easy-to-install wireless smart sensors to monitor the temperature and strength of concrete in real time.

Placed within the concrete formwork, the sensors take two readings:

- One from their waterproof body
- One from the sensor cable

The wireless sensors transmit the data via Bluetooth, providing multiple users with instant access to real-time data of the concrete’s temperature and strength.

We can support with calculating number of sensors needed for a job, but as a guide one sensor is required per pour or 80m³ of concrete, and it takes measurements once every 15 minutes for a period of two months.

Sensor type	Wireless smart sensor
Installation	Placed on concrete rebar before pouring
Readings	Two readings: one from waterproof body and one from cable
Transmission	Bluetooth
Access	Instant access for multiple users
Coverage	80 cubic meters of concrete
Data sampling rate	Once every 15 minutes
Duration	Two months

The SmartRock™ mobile and web app provides real-time and remote monitoring of concrete data directly from the jobsite or remotely from an office. With its easy-to-use interface, the app puts valuable concrete data at your fingertips.

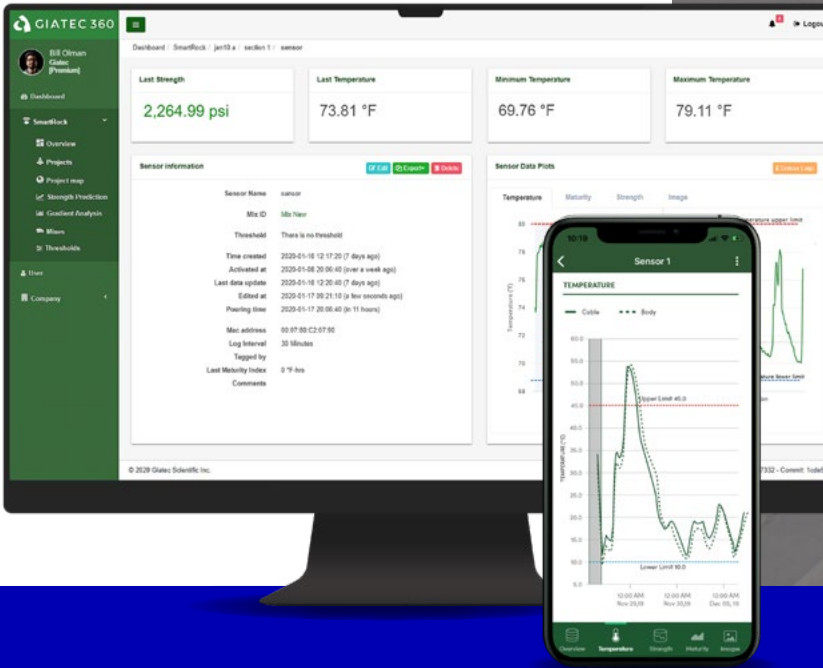


Save time and set alerts to notify your team when the concrete is ready for the next stage of construction.



Free to download and use with Cemex i-Con and SmartRock Sensors

- Real-time and remote monitoring of temperature, maturity, and strength data 24/7
- Proactive custom alerts and smart notifications to keep you informed
- Easy live data sharing and PDF/CSV reporting for clear communication
- Predicts when concrete will reach target strength
- Support in onboarding you



Get started in four easy steps



Contact us about i-Con.



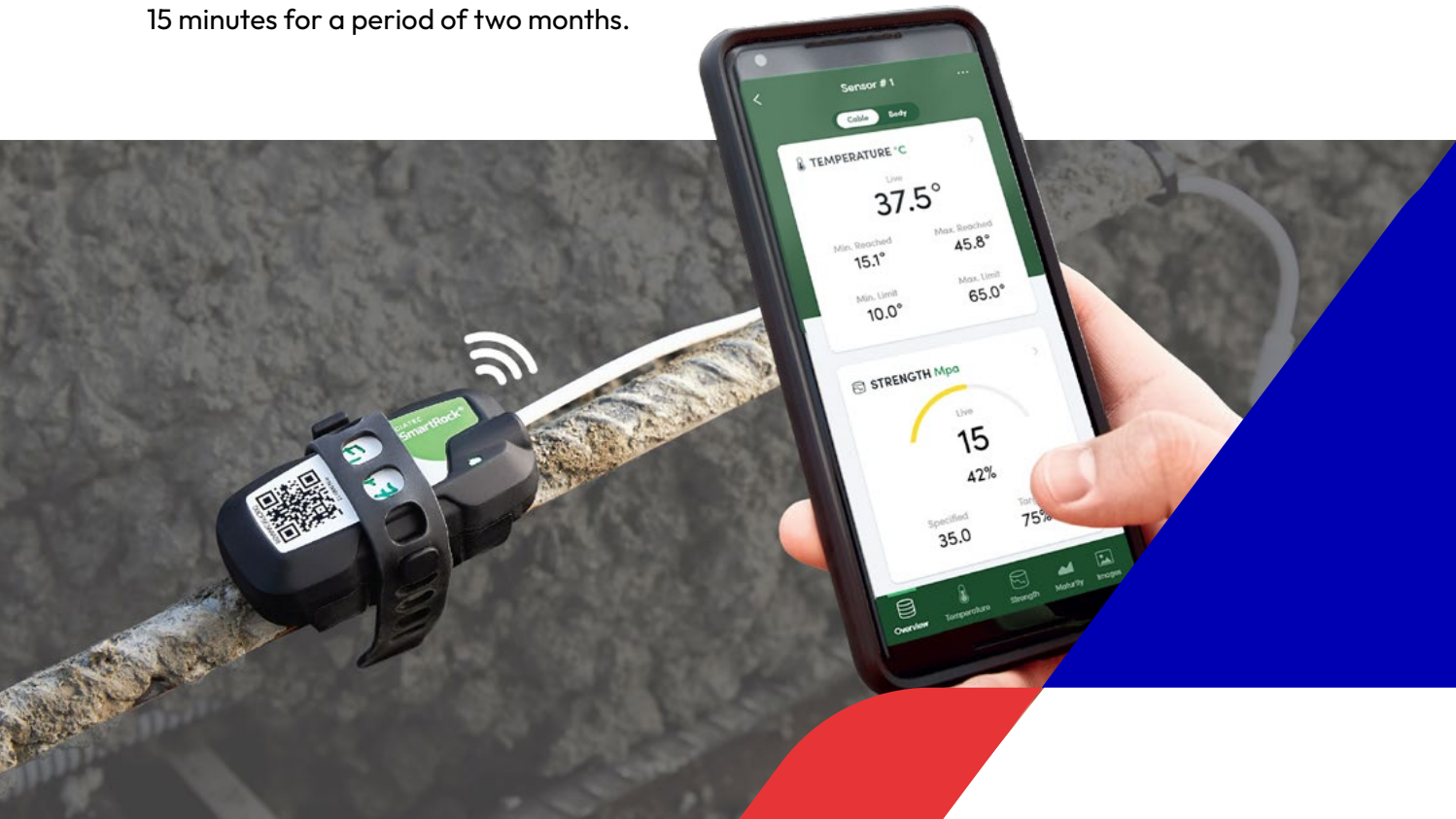
Tag Sensor
Activate the sensor and tag each one in your SmartRock app by project and section.



Install & Pour
Secure the sensor to the rebar in the formwork and pour concrete as usual.

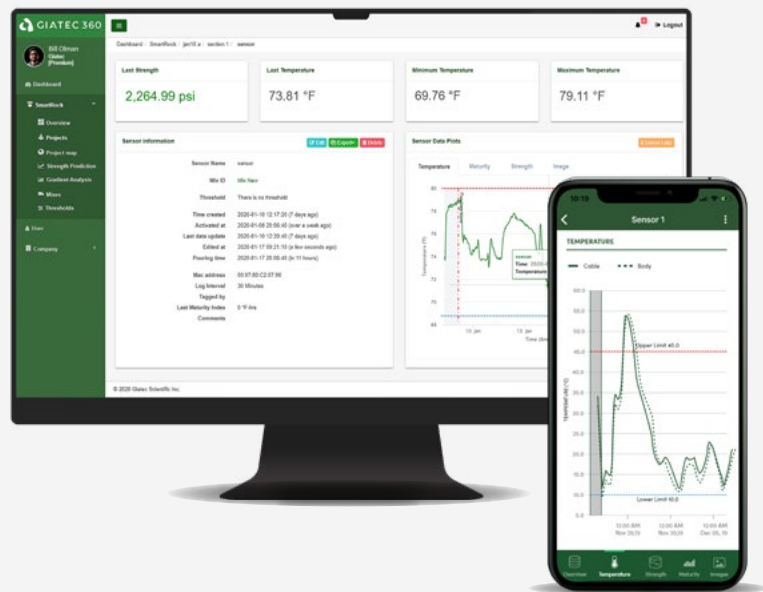


View Results
Open the SmartRock app to view concrete strength and temperature data in real-time or remotely using SmartHub.





Is part of our suite of digital solutions which are designed to help contractors improve their productivity, profitability, and sustainability.



For further information or to place an order contact us:

0800 667 827

gb-enquiries@cemex.com

Cemex.co.uk/i-Con

Cemex is a global leader in the building materials industry providing high-quality, innovative products and exceptional service to both customers and the community in the most sustainable and efficient way possible. Cemex UK Operations Ltd, Cemex House, Binley Business Park, Harry Weston Road, Coventry, CV3 2TY

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