Your expert in concrete

Concremote uses digital sensors to measure the insitu concrete maturity (temperature x time) gradient and with this data it calibrates early age strength. Think construction processes forward and boost your productivity.

When is the earliest possible stripping time?

As soon as the concrete reaches your predefined target value, Concremote will automatically notify you in real-time by text message or email. So you can instantly get going on your next construction steps, saving you time and costs on your jobsite.

Which concrete mix will be the most cost-effective?

Calibration of your concrete mixes enables you to assess the best mixture. Before construction work starts you can opt for the concrete mix that will be the most cost-effective for your planned cycle time.

How can you plan in advance to avoid follow-up costs?

Concremote measures continuously. If temperature differences in the structure start to go critical, you can react right away with the measures that will protect the quality of your concrete. And you have access to Concremote data as a curing log as the as-built quality-assurance records.

Universal usage

Mass concrete



The cable sensor has up to three measuring probes and is positioned on the reinforcement before the concrete is poured.

Wall



Floor

The slab sensor is placed on the surface of the

fresh concrete after screeding.

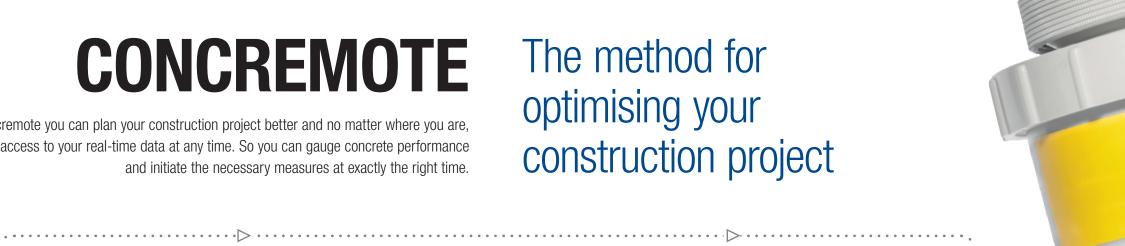
The probe for the cable sensor is incorporated directly into the form-facing and repositioned together with the formwork.



CONCREMOTE

With Concremote you can plan your construction project better and no matter where you are, you have access to your real-time data at any time. So you can gauge concrete performance and initiate the necessary measures at exactly the right time.

The method for optimising your construction project



1. Planning

Maximise benefits by using Concremote as soon as you start into the bidding phase and when you move on to pre-construction work. Calibration lets you simulate strength gain and temperature development for each concrete mix and ready-mix plant in advance. Which results in secure pre-construction decisions during the planning of your cycle times. You have more options for selecting a concrete mix, because you make informed decisions on fast strength development vs. high-cost mixtures or slow strength development vs. lower-cost mixtures.

5. Learning

Utilise prior Concremote data to optimise your pricing and work flow planning for subsequent steps in the construction process and for further projects.

4. Evaluation & Measures

The results of measurement are logged, so you have more certainty and documentary proof of quality. You have hard data to support your decisions in executing critical path activities (stripping, prestressing, climbing, curing) at their earliest possible time.



2. Measurement

The digital, wireless sensors continuously measure temperature. Your concrete's strength gain is then calculated in the secure Concremote web portal:

- Concremote sensors with wireless data transmission are largely maintenance-free, thanks to their long-life batteries, robust design and reusability
- The sensors are easily and quickly installed. They are simply placed either on fresh concrete or fixed to the wall formwork
- The compressive strength of the concrete is calculated by using the internationally accepted maturity method in accordance with recognised standards such as EN 13670, DIN 1045-3, ZTV-ING & ACI ASTM and C 1074



3. Information & Monitoring

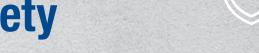
No matter where you are, reliable information is available 24/7 and in real-time through the web portal. You can set an alert so that you are notified automatically by text message or email when the concrete reaches the defined target strength.

Save time

- Implement shorter cycle times with certainty by measuring early strength gain of the concrete, instead of having to rely on traditional approaches and incremental test cubes
- Switch concrete mix to optimise overall construction time
- Remote monitoring of temperature development and strength gain can be off-site
- Automatic notification in real-time when the concrete reaches the target value, enabling rapid initiation of critical path activities (stripping, pre-stressing, climbing, curing)
- Digital logging of the measured data reduces on- & off-site management

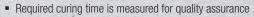


Increase safety

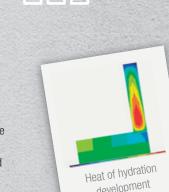


- Reliable quality data from the concrete structure makes for greater security in the decision making process
- Hard data for compliance confirming quality and strength thresholds
- Safe repositioning of the formwork in winter working conditions

Enhance concrete quality



- Mass concrete:
- · Heat of hydration is monitored continuously to minimise crack widths
- · Optional automatic control systems for the heating and
- Support for achieving uniform fair-faced concrete colour tones when stripping formwork at a known level of concrete maturity



Reduce costs

- Plan cycle times in advance to cut material and labour costs
- Shorter cycles, delivering reduced commissioning of on-site quantities
- Validated concrete quality for reduced concrete finishing costs
- On builds with lengthy cycle times, optimising the concrete mix helps cut costs
- No requirement for traditional, incremental testing of cubes to establish early concrete strength



AWO-Föhrenpark Munich | Germany

Time savings

 About 50 % time saving because of reduced build time of a full 6 weeks by delivery of a 3-day cycle

KTM Museum

Enhanced concrete quality

High level of process dependability with

reliable monitoring of heat of hydration

and strength gain despite difficult climatic

Support for achieving uniform fair-faced con-

formwork at uniform concrete maturity

Avoidance of concrete finishing measures

Detailed records and documentation as a

precaution against complaints

crete surfaces and colour tones by stripping

Mattighofen | Austria

More safety

Cost reduction

- Early calibration of the concrete mixes meant that the best-choice concrete for the season could always be used
- Documentation and validation towards the asset owner and for the site log

Savings in six figures (EUR) Faster stripping of formwork, therefore requiring a third less commissioning

quantities – 600 m² less slab formwork

Enabling the formwork to be climbed sooner,

Documented as-built records for all project

High level of certainty in decision making

with continuous real-time data

Monitoring heat of hydration ensures

Enhanced concrete quality

concrete quality and durability

cutting the 6-day cycle to 5 days

Highpoint

London | England

Time savings

More safety

stakeholders

Muskrat Falls hydropower station

Newfoundland and Labrador | Canada

More safety

As-built records are shared with the asset

Saving of 47 construction days for the core **Enhanced concrete quality**

- Constant temperature monitoring in extreme weather conditions ranging from -40 to +20 °C
- Prevention of temperature-induced cracking for significant increase in durability

Cost reduction

Avoidance of concrete repair measures

CONCREMOTE Concrete Intelligence. Real-time.







Save time



Increase safety



Enhance concrete quality



Reduce costs

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