

ConReg System

Maturity Meter for Concrete

ConReg Maturity Meter registers and presents a concrete construction's temperature development while it is in progress. The strength is calculated continuously which gives the advantage of knowing when the formwork can be stripped or the structural element can be loaded.

The registered data often has a decisive importance for the final result. Using the continuous supervision, there are also great opportunities to influence the hardening development in the correct way.

To achieve a satisfactory result, you only have one chance to make it right from the beginning.

One single mistake may be devastating for the security, economy and durability of the construction in the future.

The maturity meters are delivered in transportation boxes with manuals and accessories.



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Concrete maturity meter

- a benefit of security, economy and quality

Measuring temperature in newly cast concrete

To measure temperature in newly cast concrete is a superior way to test when the concrete will generate heat and develop its strength during the sensitive first period. The strength growth is depended on the concrete's temperature during the first period. A higher temperature leads to a more rapid strength growth while cooling causes a slower growth. Measuring maturity is of importance for all concrete constructions with respect to security, economy and quality.

ConReg Maturity Meters provides a unique possibility to determine the actual strength in your concrete construction.

Measuring with your own tendency curves

With ConReg System there is a possibility to take into account your own concrete data, so called tendency curves. This feature helps to measure the concrete's strength with considerably higher precision. Your own concrete data in form of tendency curves can easily be created in the concrete factory's laboratory.

Measuring Directly in the Construction

There is a great advantage to be able to measure directly in a construction. The concrete starts at zero strength at casting and the future strength growth is then dependent on the concrete temperatures during the hardening process. Changes in weather may cause varying temperatures inside the construction, which effects the strength growth in different ways. By following the actual temperatures and the associated strength growth inside the construction you can achieve increased security. Hereby, the material properties of the concrete are utilized more efficiently, making the production more economic.

How to perform the measurement?

To perform the measurement, measuring wires have to be drawn inside the concrete construction. The measuring wires are actually thermo-couples with a two-way wire consisting of two different metals in each of the single wires. One end of the measuring wire is placed inside the construction and the other end is connected to the measuring instrument. The end placed inside the construction consists of peeled wires that are twisted together forming a temperature sensor.

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ConReg 712

ConReg 712 is a further development of ConReg 706.

This measuring instrument has twelve measuring channels. It is specially designed for large concrete construction projects with extended demands on the control of the hardening process. It helps to control and analyze the effects of different measures and choose the right ones to minimize cracks.

ConRegSoft - Our New PC-program

Registered temperatures and associated strength levels are shown in ConRegSoft as easily readable diagrams. Several measuring instruments can be controlled from the same software. The programme is professional designed and works under Windows XP, Windows 7 and 8. All registered data including other general information are stored in documents.

Remote control

With the help of a GSM-modem, both measuring instruments can be remotely controlled through the PC-programme. This gives a possibility to observe the strength growth as well in the office as on site.

ConReg Mognadsmätare är en serie mätinstrument som ConReg Maturity Meters is a series of instruments that can record up to 12 different measuring points. The instruments are specially designed for the tough reality on site and they can withstand rain, nasty weather and harsh treatment without yielding its function. The user has the option to decide how often the measuring instrument will record the temperature. A recommendation is to record every half hour. During shorter measuring periods up to about a day an interval of 5 – 10 minutes may be appropriate.

ConReg 706

The measuring instrument has six measuring channels. A built-in processor calculates the temperature and the strength growth. The result is shown on a LCD display. With the help of this display different functions can be selected, for example start/stop of the measurements and change of settings.

The registered temperatures are stored in a memory, which later can be downloaded to a PC through a cable or a GSM modem.

ConReg 706

ConReg 712

Instrument window.

Recipe database window.

Temperatures can be shown both in graphs and tables.

Several windows can be shown simultaneously. In this example curves are shown for registered temperature and strength.