

Product Showcase

Testing Equipment

Perma

Giatic Perma™ is a laboratory test device for the measurement of the electrical conductance of concrete samples to provide a rapid indication of their resistance to the penetration of chloride. According to the manufacturer, it is the only rapid chloride permeability test device on the market that is certified for laboratory testing. The measured data can be used to estimate the chloride diffusion coefficient of concrete for the service-life prediction and design of concrete structures, as well as the durability-based quality control of concrete.

—Giatic Scientific Inc., www.giaticscientific.com



Proceq DY-2

The new DY-2 family of automated pulloff testers covers a complete range of pulloff applications. The testers have an integrated, feedback-controlled motor, which guarantees a constant load rate. All models exceed the accuracy requirements specified in all major standards. Three models are available, each with different maximum pulling force capabilities: the DY-206, with a pulling force up to 1350 lbf (6 kN), has increased accuracy for low-strength applications; the DY-216 is suitable for most applications with a pulling force of 3485 lbf (15.5 kN); and the DY-225 can be used for very-high-strength applications, with a pulling force up to 5620 lbf (25 kN).

—Proceq SA, www.proceq.com



HOBO UX100 Series

The HOBO® UX100 Series of data loggers tracks temperature and relative humidity in indoor environments, offering higher accuracy, larger measurement capacity, and a larger LCD display to make data collection easier and faster. Matchbox-sized data loggers can be placed wherever needed. The LCD screen allows for monitoring without requiring a connection to a computer, although the available HOBOWare® Pro software provides easy data analysis. This series of loggers provides an affordable option that is more advanced than traditional loggers, but not as expensive as high-end LCD loggers that require calibration.

—Onset, www.onsetcomp.com

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I-Cal 2000 HPC

The I-Cal 2000 High Precision Calorimeter (HPC) is a two-channel isothermal calorimeter that features a sample size of up to 4 fl oz (125 mL) and can be used to test cement paste, mortar, and concrete. A thermal hydration curve is captured in the accompanying CalCommander software application, which also includes a series of analysis tools including activation energy, set time, and strength prediction, and a simple-to-use interface for heat of hydration testing. The I-Cal 200 HPC's design results in lower sensitivity to outside conditions, and therefore produces more consistent results, even in a non-air-conditioned environment.

—Calmetrix Inc., www.calmetrix.com

Rapid RH Data Master

The new Rapid RH® DataMaster™ combines several technologies into one wireless, handheld device designed to help protect data integrity and ease verified reporting for concrete and flooring professionals. The DataMaster allows flooring specialists to quickly and accurately collect relative humidity (RH) testing data from multiple job sites, and then create verified, ASTM-compatible reports through www.f2170reports.com, a new website introduced as part of the DataMaster package. The DataMaster was a winner of the Most Innovative Product Award at World of Concrete 2013.

—Wagner Meters, www.wagnermeters.com

Windsor HP Probe System

The Windsor HP Probe™ system rapidly and accurately determines the concrete compressive strength of a structure by driving a probe into the concrete with a known amount of force. The system, which has been used and improved for over 30 years, is capable of evaluating concrete with a maximum compressive strength of 17,000 psi (117 MPa). It has a rugged design for use in a construction environment while remaining simple to use. An electronic measuring unit helps ensure proper test results, which can be saved for later review or uploading to a computer.

—James Instruments Inc., www.ndtjames.com



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