

Product Showcase

Curing Technologies

Con-Cure NEX

Con-Cure NEX is a wireless concrete maturity and temperature monitoring system that provides real-time curing data over an Internet browser. Small, reusable sensors are embedded in the concrete, and lead wires from the sensors are routed to the outside of the formwork. Lead wires are plugged into wireless nodes that record the data onto secure digital (SD) cards. The nodes also transmit the data via the cellular network to “the cloud” when service is available. The recorded and transmitted concrete temperatures are used to estimate concrete strength per ASTM C1074.

—Con-Cure, LLC, www.concure.com



QuickCure Blankets

The Strong Man QuickCure concrete curing blanket is a winter enclosure tarpaulin used in cold weather areas. QuickCure blanket comprises an 8 x 8 weave per in.² polyethylene (PE) tarp with PE closed-cell foam layers. Edges are hemmed, double stitched, and reinforced with polycarbonate grommets every 3 in. (76 mm). Fabricated to help insulate and control temperatures, QuickCure curing blankets are resistant to sunlight, moisture, and mildew.

—Strong Man Safety Products Corp., www.strongman.com

HydroMax

ProCure's HydroMax[®] is an internal curing admixture for making more durable, high-performance concrete. Compliant with ASTM C494 Type S, the admixture is designed to capture and retain excess water to increase the hydration of portland cement and other cementitious materials while facilitating placing and finishing operations. HydroMax can generally extend the hydration time of concrete mixtures from 3 to 7 days.

—ProCure, www.procureusa.com

VaporDry

Corrigan's VaporDry[™] humidity control system for concrete curing and storage rooms is designed to provide relative humidity (RH) levels greater than 95%. The system's precision-machined nozzles, along with accurately controlled air and water pressures, produce fog with water droplets as small as 2 micron and consistently well below 10 micron. Droplets rapidly evaporate before saturating or condensing on any surface. VaporDry is simple to install, inexpensive, and easy to maintain.

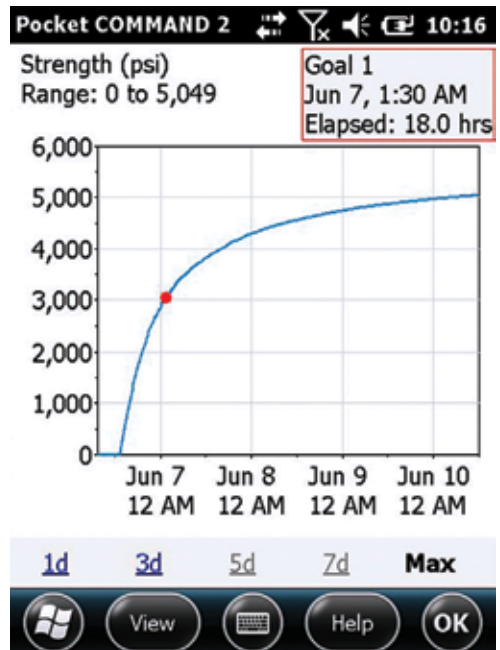
—Corrigan Corporation,
www.corriganhumidity.com



Ultra-Trak

Fas-Trak Industries' Ultra-Trak is a 5-in-1, fully automated, pressurized chemical application system. Water- or solvent-based concrete coatings can be applied at 20,000 ft²/hr (1860 m²/hr), Densifiers, sealers, and finish coats can be applied at 25,000 ft²/hr (2320 m²/hr). Application rates can be calibrated using the system's control mechanism. A built-in charger provides a battery runtime of 5 to 7 hr. Ultra-Trak is portable and lightweight and comes with two available head sizes of 28 and 36 in. (711 and 914 mm).

—Fas-Trak Industries, www.fastrakind.com



COMMAND Center Maturity Method

COMMAND Center is a temperature and maturity monitoring system. It uses the Nurse-Saul or Arrhenius functions to calculate maturity and automatically create maturity curves used for evaluation of in-place concrete strength. The data can be presented in SI, U.S. customary, or mixed units. COMMAND Center allows users to simultaneously view output from multiple sensors. The temperature sensors are self-powered and collect and store internal concrete temperature at customizable time intervals (1 to 255 minutes) for 2 years or more.

—The Transtec Group, Inc., www.maturitycentral.com

Silencure DOT

ChemMasters, Inc.'s Silencure™ DOT is a water-based, white pigmented wax emulsion curing compound with penetrating silane/siloxane sealer for concrete pavement. Silencure DOT is applied to fresh concrete and meets ASTM C309 requirements for liquid membrane-forming compounds for curing concrete. Its white pigmentation provides a minimum 65% light reflectance to keep concrete cool as it cures. Silencure DOT meets most state transportation departments' requirements for sealers. When evaluated using the methods per NCHRP Report 244 - Series II and Series IV tests, specimens treated with Silencure have shown reductions in water and chloride ion penetration.

—ChemMasters, Inc., www.chemmasters.net

