

Products & Practice

Sherwin-Williams Dura-Plate 6000

Dura-Plate® 6000 from Sherwin-Williams is a 100% solids, high-build, high-strength, reinforced epoxy lining for concrete and steel in severe wastewater service environments. Reinforced with glass flakes, this product can be applied more than 125 mils (3 mm) thick in a single spray, potentially reducing the need for additional coats. The product's ability to be sprayed using a single-leg application eliminates the expense of renting a generator and using a plural pump operator. Dura-Plate 6000 has a long pot life, helping users reduce waste material, as well as a 21-day extended recoat window, which helps reduce missed recoats. In addition, the lining does not require a glaze coat. The reinforced epoxy lining material is rated for immersion service in a variety of severe environments, including headworks and primary treatment plants for wastewater operations, as well as manholes, wet wells, and pump stations for sewer collection. It can be applied over properly prepared steel and concrete surfaces in these and other environments to deliver long-term service.

—Sherwin-Williams, www.sherwin-williams.com



Humboldt CMOTS Maturity Sensor System

Humboldt's concrete maturity sensor system, CMOTS, comprises a transmitter, sensor, and wireless receiver. The system's components work together to gather raw data on concrete temperatures, maturity, and strength from massive concrete placements, walls, suspended slabs, and more. The sensor is embedded within placed concrete, and the transmitter is placed alongside the placement, where it may be secured if desired. A 20 ft (6 m) waterproof cable connects the sensor to the transmitter, with extension cables available. The receiver must be located within 1000 ft (300 m) of the farthest installed transmitter/sensor. The data that is collected is made available in real-time through a wireless, cloud-based platform that can be accessed through any computer, phone, or tablet connected to the internet.

—Humboldt, www.humboldtmg.com

Liebherr RIV 2.5-D Ring-Pan Mixer

The RIV 2.5-D ring-pan mixer from Liebherr offers a mechanical double agitator with variable speeds and a variety of mixing tools to aid in the production of high-performance concrete. The main mixing unit is driven by a 132 kW (177 hp) motor with a 75 kW (101 hp) agitator motor. The motors are equipped with frequency converters, allowing their speed to be independently adjusted during mixing. This ring-pan mixer has a filling capacity of 990 gal. (3750 L) and can mix many types of concrete, including ultra-high-performance concrete (UHPC), self-consolidating concrete (SCC), and colored concrete.

—Liebherr, www.liebherr.com

Brokk Hydraulic Breaker Series

The Brokk Hydraulic Breaker (BHB) series is made to coordinate with the company's full range of remote-controlled demolition robots. The BHB series includes eight breaker models, starting with the 110 lb (50 kg) BHB 55 breaker for the compact Brokk 60 remote-controlled demolition machine. The range goes all the way up to the 1540 lb (700 kg) BHB 705 for the recently introduced Brokk 500 and Brokk 520D. Like Brokk remote-controlled demolition machines, the BHB series features a high power-to-weight ratio. The attachments are lightweight and compact, yet they feature power similar to larger, heavier breakers. The hammer bodies are machined from a solid casting, eliminating side and through bolts and side plates. An integrated, side-mounted accumulator holds a nitrogen gas charge for as long as a year.

—Brokk, www.brokk.com



Products & Practice

GSSI StructureScan Mini XT

The StructureScan™ Mini XT all-in-one ground-penetrating radar (GPR) system for concrete inspection from Geophysical Survey Systems, Inc. (GSSI), is ideal for locating reinforcing bars, conduits, post-tensioning strands, and voids. Rugged, compact, and flexible, the Mini XT has a 2.7 GHz antenna and can reach depths of 600 mm (24 in.) to help identify structural elements, including pan decking and concrete cover. It can also provide a real-time determination of concrete slab thickness. It features an intuitive 165 mm (6.5 in.) touchscreen interface and six-button control options. At just 1.8 kg (4 lb), it is a lightweight option for structural inspections.

—Geophysical Survey Systems, Inc., www.geophysical.com



ChemMasters Aquanil Plus MCI

The ChemMasters Aquanil Plus MCI series of silane sealers provides protection to concrete from damage caused by exposure to freezing-and-thawing cycles and deicing chemicals. The series comprises Aquanil Plus 40 MCI (40% solids silane, <600 g/L VOC), Aquanil Plus 40-A MCI (40% solids silane, <250 g/L VOC), and Aquanil Plus 100 MCI (100% solids silane, <250 g/L VOC)—all of which are formulated to offer a VOC-compliant option within the United States and Canada. The products in this series feature a migrating corrosion inhibitor (MCI), which delivers superior corrosion protection to embedded steel in concrete. They are nonetching, will not harm most uncoated glass or metal frames, and leave no residue. Offering long-term protection of concrete surfaces and structural steel or reinforcing bar, these products are intended for such applications as exterior cast-in-place concrete, bridge and parking decks, columns, beams, and roadways.

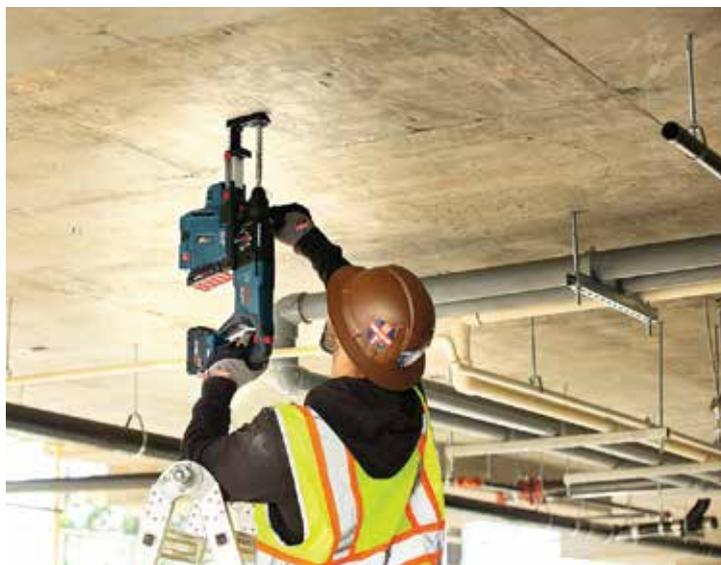
—ChemMasters, Inc., www.chemmasters.net



Bosch GBH18V-26D Cordless Rotary Hammer

The GBH18V-26D 18V EC Brushless 1 in. (25 mm) SDS-Plus® Bulldog™ Rotary Hammer from Bosch features next-generation lithium-ion 21700 cell technology for a lightweight, high-power battery with all-day performance. All Bosch batteries provide cold-weather performance to -4°F (-20°C), and Bosch Electronic Cell Protection safeguards the battery against overload, overheating, and depth discharge. The tool itself weighs 5.8 lb (2.6 kg) and delivers 1.9 ft-lb (2.6 J) of impact energy (EPTA) for heavy-duty drilling and chipping applications in concrete. It offers a soft-grip handle and provides horizontal power transmission for optimized overhead, horizontal, and downward drilling applications.

—Bosch, www.boschtools.com



GCP PREPRUFE 800PA

PREPRUFE® 800PA is a membrane designed for dampproofing critical below-grade surfaces. Tests show its seal can withstand over 200 ft (60 m) of hydrostatic pressure, helping keep basements free of leaks. It is a self-adhering membrane with a synthetic, nonasphaltic adhesive that is resistant to punctures and tears due to its high-density polyethylene (HDPE) film composition. Its elastomeric properties allow it to accommodate minor structural movements. It comes in a 4 x 115 ft (1.2 x 35 m) roll that can be applied in ambient temperatures of 40°F (5°C) and above. A low-temperature membrane is also available that may be applied in ambient temperatures between 25 and 60°F (−4 and 16°C).

—GCP Applied Technologies, www.gcpat.com

Web Notes

“How to Take the Guesswork Out of Your Parking Garage Inspections”

Western Specialty Contractors offers a short visual guide and checklist for parking garage inspections. Photos of common types of damage help users identify problems such as efflorescence, exposed reinforcing bar, and spalling and cracking, while simple questions and checkboxes allow users to track the damage. Among other benefits, early identification of issues can help avoid costly restoration, decrease liabilities, and maintain a property’s value. The visual guide and checklist can be downloaded for free at <http://online.fliphtml5.com/vvef/bzai/>.

—Western Specialty Contractors,
www.westernspecialtycontractors.com

Products & Service Literature & Videos

BIM Project Execution Plan Guide: An Introduction for Those New to BIM

The *BIM Project Execution Plan Guide*—sponsored by the Charles Pankow Foundation and BIMForum, with Principal Investigator Will Ikerd—offers an introduction to building information modeling (BIM) for those unfamiliar with the subject. Topics common at past BIMForum conferences are discussed within, as well as those topics deemed important by industry professionals who were interviewed and surveyed. The goal of the guide is to share information learned from companies and individuals who are well versed in BIM. The intended audience includes those working on small to mid-size projects, from building owners to their design and construction teams. The guide may be downloaded for free at www.pankowfoundation.org/projects/bim-execution-planning-guide-bxp-guide.

—Charles Pankow Foundation,
www.pankowfoundation.org

Book Notes

The Fabric Formwork Book: Methods for Building New Architectural and Structural Forms in Concrete by Mark West

The first edition of *The Fabric Formwork Book* focuses on the emergence of flexible molds for reinforced concrete structures. The author examines international case studies, offers guidance on constructing formworks for differing applications, and discusses the sustainable nature of fabric formwork. Also featured are essays from guest authors who are experts in the field. The book includes an array of illustrations, images, and diagrams. The intended audience ranges from students to professionals, with technical terms clearly defined in a glossary for improved accessibility.

\$72.95 (paperback); 298 pp.; ISBN 9780415748865

—Routledge, www.routledge.com