

Products & Practice



AT-16 Track Drive Power Buggy

Allen Engineering's AT-16 Track Drive Power Buggy has excellent traction via its rubber tracks—even on soft soils. One of the largest power buggies on the market, its 27 hp engine gives it great load capacity on inclines. Loads are distributed evenly across the buggy's entire steel frame to provide smooth transport. The 16 ft³ (0.5 m³) heavy-duty, polymer dump bucket can carry a 2500 lb (1135 kg) payload and has 6 in. (150 mm) ground clearance when dumped.

—Allen Engineering Corporation, www.alleneng.com

Strip-Sealer

The D.S. Brown Company has announced their Strip-Sealer™, a handheld pneumatic tool designed to aid installers of the company's neoprene expansion joint glands. The tool ensures smooth and accurate installations, reduces installation labor and time, and helps to eliminate punctures and tears. Using the new tool, two laborers can install a seal on a 40 ft (12 m) bridge joint in only 15 minutes.

—The D.S. Brown Company, www.dsbrown.com



Concrete Pharmacy Corrosion Inhibitor

Concrete Pharmacy® Rapid Set® Corrosion Inhibitor admixture provides triple protection against corrosion of embedded steel. It acts as a water repellent and reduces chloride diffusion through the concrete, and it provides a protective coating over embedded steel. The product can be used with Rapid Set cement products—alone or in combination with other products in the company's Concrete Pharmacy line of admixtures, additives, and fibers.

—CTS Cement, www.ctscement.com



Deckshield

Flowcrete North America is bringing its Deckshield parking protection systems to the Americas. Deckshield has already built up a track record of success in protecting outdoor parking structures in Europe, the Middle East, and Asia. The system is available in either polyurethane or rapid-curing methyl methacrylate variants and is used to enhance the visual appearance, light reflectivity, traffic regulation, and maintenance of the internal structure of parking areas.

—Flowcrete North America, www.flowcreteamericas.com

Products & Practice

Lafarge Cement Used in Commercial Wind Energy Project

Cement supplied by Lafarge North America played a key role in the construction of the Blue Creek Wind Farm in western Ohio. One of the largest wind power plants in the world, with 152 Gamesa G90 turbines, the facility has the capacity to provide clean energy to 76,000 homes. Lafarge supplied Type I portland cement for the project. A portable batch plant was used to produce about 122,500 yd³ (93,700 m³) of concrete for the construction of the project's 15 to 20 ft (4.5 to 6 m) deep concrete foundations. Lafarge also supplied cement for soil stabilization to create roads leading to the site and provide a base for access roadways.

—Lafarge North America Inc., www.lafarge-na.com



Serpent Vented Safety Helmet

Heat buildup under safety helmets can cause fatigue and heat stress. To combat these hazards, the Serpent[®] Vented Safety Helmet features the unique CoolSense[™] airflow system, which features six vents along the top of the helmet. Additional features include a cushioned brow pad that absorbs perspiration and a rain trough to divert water from workers' faces. The shell is made from high-density polyethylene that provides impact protection without adding weight.

—Gateway Safety, Inc., www.gatewayssafety.com

LATICRETE NXT

LATICRETE[®] NXT is a new line of underlayment and patching materials formulated for tiles and to address and solve floor preparation issues relative to the installation of other kinds of flooring. The NXT line was developed with LATICRETE's European partners using state-of-the-art technology new to the U.S. market. The material is self-leveling and can be pumped or placed easily and, after curing, offers a strong substrate that is ready to be covered by flooring surface finishes.

—LATICRETE International, Inc., www.laticrete.com

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Book Notes



Mineral Admixtures in Cement and Concrete

by Jayant D. Bapat

Written for engineers, *Mineral Admixtures in Cement and Concrete* focuses on how to make more workable and durable concrete using mineral admixtures (also known as supplementary cementitious materials). Specifically, it covers pulverized fuel ash, blast-furnace slag, silica fume, rice husk ash, and metakaolin, as well as some admixtures currently under investigation. For each mineral admixture, the book looks at manufacturing, processing, physical characteristics, chemical and mineralogical composition, quality control, reported experiences, and the provisions of national standards on the admixture's addition to cement and concrete. The book also addresses hydration, strength and durability, and how to mitigate varying forms of deterioration. It serves as a reference for practicing engineers and students, and it encourages engineers to more effectively use these and other materials in cement and concrete to support more sustainable growth of the cement and construction industry.

CRC Press, website: www.crcpress.com

price: \$129.95; 310 pp.; ISBN: 9781439817926

Products & Service Literature & Videos



New Video from AltusGroup Highlights Precast Concrete Double Tees

A new video from AltusGroup is intended to educate parking garage owners and engineers about the use of carbon fiber grid reinforcing in the flanges of precast concrete double tees. The video details the design and production of CarbonCast Double Tees, which use C-GRID® carbon fiber grid as flange reinforcement. Because carbon fiber grid is noncorrosive and four times stronger than steel by mass, AltusGroup precasters can use less concrete cover and reduce the structure's carbon footprint. The video also explains additional cost- and time-saving benefits to using C-GRID and how CarbonCast Double Tees can meet ASTM E119 requirements for a 1-hour fire rating. The video can be found on the company's website and at its YouTube channel, www.youtube.com/altusprecast, as well as other educational videos about AltusGroup products.

—AltusGroup, www.altusprecast.com

Web Notes

Wagner Meters' Concrete Moisture Measurement Forum Passes 2 Million Page Views

Recent statistics indicate that the Concrete Moisture Measurement Forum, sponsored by Wagner Meters, passed 2.1 million page views as of December 2012. The forum provides a place for industry experts to share information and ask questions about concrete moisture measurement and other flooring information vital to the industry. Moderated by Ray Thomas Jr., an installation expert and flooring veteran, the forum covers a variety of topics introduced and discussed by industry professionals from diverse locations and backgrounds. With hundreds of members and more joining daily, the forum continues to become a valuable resource location for news and information about concrete moisture measurement and relative humidity testing for concrete slabs. To learn more or take part in the forum, visit www.wagnermeters.com/concreteforum.

—Wagner Meters, www.wagnermeters.com