

# Products & Practice



## RS844 ROLLERSCREED

The Allen® RS844 ROLLERSCREED is a ride-on, steerable roller screed powered by a 44 hp Kubota Turbo Diesel, making it one of the most powerful machines of its kind on the market. It features an 8 in. (200 mm) diameter paving tube that produces smoother concrete, and is available in working widths of 12 to 32 ft (3.7 to 9.8 m). The RS844 is ideal for pavements, including highway panel replacements, white-topping, and airfields. Optional features include an 8 in. (200 mm) reversible auger for machines up to 26 ft (8 m) wide and a powered spray system for retardant application.

—Allen Engineering Corporation, [www.alleneng.com](http://www.alleneng.com)

## Pavemend

The Pavemend® line of high-performance concrete repair products have become the choice of professionals across the country, including many Departments of Transportation and NASCAR and Indy Car racetracks. They offer fast return to service in 3 hours or less and create an extremely durable repair. Pavemend can be used to repair pavement, bridge decks, airfields, parking garages, anchoring, joints, sloped concrete, precast elements, and more. Some products can be used in temperatures as low as -20°F (-29°C) and as high as 120°F (49°C).

—CERATECH Inc., [www.ceratech.com](http://www.ceratech.com)

## HDE 500-A18 Compact Cordless Adhesive Dispenser

Hilti's HDE 500-A18 Compact Cordless Adhesive Dispenser makes adhesive anchor and reinforcing bar installation quick and easy. The cartridge holder is designed to swivel and snap into place, making cartridge changes faster without having to put the tool down. It features an adjustable dosing mechanism that allows the user to set the desired amount of adhesive dispensed with each pull of the trigger, which is especially helpful in applications with repetitive embedment depths and reducing the amount of waste. It accepts Hilti 11.1 and 16.9 oz (330 and 500 mL) adhesive foil pack cartridges.

—Hilti, Inc., [www.us.hilti.com](http://www.us.hilti.com)



## QUIKRETE Anti-Skid Textured Coating

QUIKRETE® Anti-Skid Textured Coating provides increased traction and more protection for both interior and exterior surfaces, which is ideal for concrete surfaces where increased traction will improve safety. It is a high-build coating fortified with heavy-duty resin technology that provides high traction for surfaces such as walkways, steps, ramps, and pool decks, and can be used on new or repainted surfaces. For more information on this and other QUIKRETE products, visit [www.quikretecoatings.com](http://www.quikretecoatings.com).

—The Valspar Corporation, [www.valsparglobal.com](http://www.valsparglobal.com)

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## Stamped & Decorative Concrete Sealer 400A

ChemMasters introduced this new decorative concrete sealer that provides an extended working time during application. The sealer is formulated to evaporate slowly for easier application and eliminate the bubbles associated with fast-drying solvents. It gives a high-gloss finish and resists aliphatic solvents, acids, alkalis, gasoline, oils, and grease. It offers a high level of penetration, adhesion, and durability, and is ideal for stamped concrete, exposed aggregate, terrazzo, and man-made or natural stone.

—ChemMasters, Inc., [www.chemmmasters.net](http://www.chemmmasters.net)



## HYDRALASTIC 836

HYDRALASTIC 836 is a cold-applied, solvent-free, 100%-solids, single-component waterproofing compound used for interior or exterior concrete surfaces where protection from water intrusion is desired. Used in horizontal and vertical applications, HYDRALASTIC 836 is ideal for positive-side waterproofing for foundations and in between slab applications. It does not shrink and has a low-VOC content. It can be used for both above- and below-grade applications and will not fail in extreme temperatures.

—W. R. Meadows, [www.wrmeadows.com](http://www.wrmeadows.com)

## Insularis

The latest in CEMEX's line of global ready mixed concrete brands, Insularis, offers solutions to improve the energy efficiency of buildings. Developed by the CEMEX Research Group AG in Switzerland, Insularis offers a 100% structural lightweight concrete solution that effectively reduces thermal bridges and improves acoustic performance. Insularis is self-consolidating, is easy to pump, and has high workability retention of at least 90 minutes.

—CEMEX, [www.cemex.com](http://www.cemex.com)

## Royal Concrete Concepts Builds Fire Station in 5 Months

It took only 5 months from start to finish for Royal Concrete Concepts to construct a new fire station in Stuart, FL. The 6543 ft<sup>2</sup> (608 m<sup>2</sup>) Tropical Farms Fire Station #22 was certified under version 2 of the Commercial Standard by the Florida Green Building Coalition. The project included pre-engineered precast wall systems, roof systems, and modular components manufactured in an Okeechobee, FL, plant, which were then transported and placed at the fire station site. All of the components were integrated with tilt-up wall panels cast on site.

—Royal Concrete Concepts, LLC, [www.royalconcreteconcepts.com](http://www.royalconcreteconcepts.com)

## Universal Design Living Laboratory Uses Superior Walls Foundations

The Universal Design Living Laboratory (UDLL) in Columbus, OH, serves as a showpiece for independent living in an energy-efficient environment. It was built to showcase ways of constructing homes with universal access for persons with special needs, specifically those in wheelchairs. The starting point for the UDLL was the installation of a full basement construction of durable Superior Walls products, which were selected for their energy efficiency, fast installation, and durability. Installation took less than 2 days for the 3500 ft<sup>2</sup> (325 m<sup>2</sup>) ranch-style home. The precast foundation walls came equipped with predrilled holes for wire routing and metal channels to accommodate drywall application. The wall system eliminates the need for on-site sprays or bituminous coatings to make the walls damp-proof.

—Superior Walls, [www.superiorwalls.com](http://www.superiorwalls.com)

Information on the items reported in "Products & Practice" is furnished by the product manufacturers, suppliers, or developers who are responsible for the accuracy of the information. Also, the descriptions of these items do not represent endorsement by this magazine, by the American Concrete Institute, or any of its staff. They are published here simply as a service to our readers.

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## Web Notes

### Free Web-Based Tool for Estimating Tilt-Up Panel Reinforcement

Tilt-Up Design Systems released a free web-based tool for quick preliminary panel thickness and reinforcing estimates. The tool works by entering panel width, height, thickness, design wind speed and exposure, and opening width. An estimate of the required reinforcing steel is provided, measured in pounds per square foot based on the gross panel area. The tool was developed using Tilt-Werks technology, the only tilt-up application that integrates structural engineering design with the generation of drawings, building information modeling (BIM) data, material quantities, and cost estimates. Created to help professionals determine what they need, this free online tool acts as a resource for both seasoned tilt-up construction professionals and those who are new to the industry. Visit [www.tilt-werks.com/EstimatingTool/tiltup\\_tool\\_login.php](http://www.tilt-werks.com/EstimatingTool/tiltup_tool_login.php) to access the tool.

—Tilt-Up Design Systems, LLC, [www.tilt-werks.com](http://www.tilt-werks.com)

## Book Notes

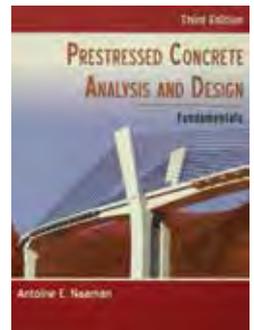
### *Prestressed Concrete Analysis and Design: Fundamentals, Third Edition*

by Antoine E. Naaman

This book was written to serve as a thorough teaching text, a comprehensive source of information, and a basic reference. It is intended for advanced students, professional engineers, and researchers. It emphasizes the fundamental concepts of analysis and design of prestressed concrete structures, providing the user with the essential knowledge and tools to deal with everyday design problems while encouraging the necessary critical thinking to tackle more complex problems with confidence. This updated edition integrates the provisions of the 2011 ACI Building Code in text and examples and offers an extensive treatment of bridge analysis and design according to the 2010 AASHTO LRFD Specifications. It also offers a rigorous treatment of fundamentals and includes chapters on many important aspects of prestressed concrete construction. It contains more than 400 illustrations and photographs as well as design flowcharts and examples.

**TechnoPress 3000, website: [www.technopress3000.com](http://www.technopress3000.com)**

**price: \$150; 1176 pp.; ISBN: 9780967493923**



## Products & Service Literature & Videos

The Environmental Protection Agency (EPA) released a new climate and energy strategy guide, titled *Resource Conservation and Recovery: A Guide to Developing and Implementing Greenhouse Gas Reduction Programs*. Resource conservation and recovery strategies involve avoiding, delaying, or decreasing the raw materials required for the production of new products through source reduction, reuse, recycling, composting, and energy recovery. These practices can reduce greenhouse gas emissions throughout the life-cycle of materials while also reducing air pollution, energy use, and landfilling costs. This guide provides comprehensive information on designing and implementing resource conservation and recovery programs, including environmental, economic, and human health benefits; source reduction and waste diversion practices and technologies; implementation strategies for success; and costs and funding opportunities. Key features of the guide include case studies and examples from communities across the United States and links to technical resources, analytical tools, and sources of funding. The guide can be downloaded at [www.epa.gov/statelocalclimate/documents/pdf/ResourceConservGuide.pdf](http://www.epa.gov/statelocalclimate/documents/pdf/ResourceConservGuide.pdf).

—Environmental Protection Agency, [www.epa.gov](http://www.epa.gov)

