

# Product Showcase

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## Durability-Enhancing Products

### **PROTECRETE Mix Water Conditioner and Densifier**

PROTECRETE Mix Water Conditioner is added to mix water to promote better hydration of cement. Use of Mix Water Conditioner can also improve concrete's microstructure, prevent mixture segregation, and create smaller air voids. PROTECRETE Densifier penetrates up to 7 in. (175 mm) into concrete to form a gel-like waterproofing barrier. While it allows concrete to breathe and maintain an optimum humidity content, it also blocks water and other harmful agents from entering. When the two products are used together, they can lead to concrete performance similar to that of high-performance concrete.

—PROTECRETE, [www.protocrete.com](http://www.protocrete.com)

### **Deckguard**

Deckguard™ Spray-Applied Waterproofing System for highway and rail bridge deck protection is a seamless membrane that forms a barrier against water penetration and stray current on bridge decks. This thin coating has been tested to surpass several industry standards, including crack-bridging abilities that have been tested to four times the ASTM cycle requirements and twice the requisite crack width. It can be installed in temperatures ranging from -20 to 104°F (-29 to 40°C) and is chemically resistant to road salt and oil products. Each batch is tested for quality and the company offers on-site quality assurance inspections.

—The D.S. Brown Company, [www.dsbrown.com](http://www.dsbrown.com)

### **ConSeal CS-231**

ConSeal™ CS-231 Waterstop is a sealing compound that expands in a controlled fashion when exposed to moisture. It is manufactured using a specialized mixing process that encapsulates hydrophilic materials into a rubber base with the ability to expand to create a self-healing joint material. CS-231 is ideal for use in situations including manholes, box culverts, concrete pipes, foundations, and parking garages. It reduces the internal pressures created in cast-in-place applications that can lead to spalling. It also will not expand to the point that the hydration process destroys the sealant, as can happen with clay-based products.

—Concrete Sealants, Inc., [www.conseal.com](http://www.conseal.com)

### **AquaShield**

AquaShield makes water bead up and roll off concrete surfaces, helping protect against water damage and freezing-and-thawing problems. It does not alter the appearance of concrete and leaves the slab breathable, allowing vapor to escape, while still protecting against liquid penetration. The invisible, low-VOC, low-odor, nonflammable product is shipped as a concentrate to save shipping costs and decrease environmental impact.

—American Decorative Concrete, [www.ameripolish.com](http://www.ameripolish.com)

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## CINTEC Reinforcing Anchor System

The CINTEC Reinforcing Anchor System is a micro-cement anchoring and reinforcing technique used for repair and renovation of existing buildings. The system begins with inspection of the structure by a qualified CINTEC engineer and the creation of a 3-D model of the structure to determine the best reinforcement pattern. At the site, the anchor system—a steel bar enclosed in a mesh fabric sleeve—is inserted into the structure, followed by a nonpolymer, cement-like grout that is injected into the sleeve at low pressure. The grout then fuses with the mesh and expands and shapes itself around the steel to fit the space. The system can resist large blast loads, such as explosions.

—CINTEC North America, [www.cintec.com](http://www.cintec.com)



## INDUROSHINE

W. R. MEADOWS' INDUROSHINE system combines several products to reach a desired surface look. First, approved diamond grinding tools are used to prepare the surface. Next, a layer of LIQUI-HARD, a waterborne concrete densifier and chemical hardening compound, is spray-applied over the prepped surface. The surface is then polished to the desired level, and a layer of BELLATRIX concrete protection can be applied as the last step. There are three prescribed polish levels for the system, ranging from satin-smooth to high-gloss, and the higher-strength LIQUI-HARD ULTRA can be used to save time and labor.

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

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The following are some of the courses that have recently been added to the program:

- ACI 212.3R-10, "Report on Chemical Admixtures for Concrete", Chapter 15: Permeability Reducing Admixtures (PRAs);
- ACI 306R-10, "Guide to Cold Weather Concreting", Chapter 8: Protection for Structural Concrete Requiring Construction Supports; and
- ACI 347-04 Guide to Formwork for Concrete", Chapter 2: Design.

In addition, the program includes courses on the following topics:

- Cracking;
- Slabs;
- Foundations;
- Aggregates;
- Reinforcement;
- Cementitious materials;
- Admixtures;
- Repair;
- Shoring;
- Test Reports;
- Shotcrete; and
- Formwork.

