

Product Showcase

Anchorage Systems

Simpson Strong-Tie SET-3G

SET-3G is an epoxy anchoring adhesive from Simpson Strong-Tie. It has been tested and assessed in accordance with ICC-ES AC308 and ACI 355.4 for use in cracked and uncracked normalweight and lightweight concrete. SET-3G installs and performs in a variety of environmental conditions and temperature extremes. It can be installed in dry, water-saturated, or water-filled holes in base materials at temperatures ranging from 40 to 100°F (4 to 38°C); and it can be specified for dry or water-saturated conditions with service temperatures ranging from -40 to 176°F (-40 to 80°C).

—Simpson Strong-Tie, www.strongtie.com



James Instruments Inc. Super Anchor Test

The Super Anchor Test System from James Instruments Inc. can be used for testing anchor strengths in concrete, wood, masonry, and other construction materials above 30 kN (6750 lbf). The load application is achieved via a ratchet handle driving a 4:1 hydraulic multiplier; the applied load is recorded directly on a gauge mounted on the tester body. This compact design is lighter and more convenient to use than that of separate hydraulic pump and ram arrangements. An integral gauge indicates first movement as well as total displacement before failure.

—James Instruments Inc., www.ndtjames.com

DEWALT SDS Max Hollow Bits

Coupled with a HEPA vacuum dust extractor with an auto-cleaning filter, DEWALT's SDS Max Hollow Drill Bit extracts dust while drilling, minimizing workers' exposure. The system satisfies Table 1 requirements in OSHA Section 1926.1153 as an exposure control method for workers drilling into materials containing crystalline silica. Each bit includes a coupling that connects directly to DEWALT's Airlock System, forming a secure, locking connection between bit and dust extractor. Bits are available in diameters ranging from 5/8 to 1-1/8 in., and all have a usable length of 15-3/4 in.

—DEWALT, www.dewalt.com

Fortec Stabilization Systems, LLC, Carbon Staple Anchors

Fortec's Carbon Staple Anchors are designed to enhance the anchorage of externally bonded fiber-reinforced polymer (FRP) laminates and carbon fiber tows to concrete substrates. The typical anchor is 6 in. (152 mm) long by 2 in. (51 mm) wide with 1 in. (25 mm) legs. Anchors are comprised of high-tensile-strength carbon fiber encapsulated in a thermoset resin. A peel-ply fabric is adhered to the inside face of the staple, and this fabric is removed immediately before installation to expose a prepared bonding surface that can be bonded to previously installed laminates or tows using epoxy resin adhesive. The staple "legs" are anchored to the structure using adhesive injected into corresponding grooves cut into the substrate.

Typical applications include locations where laminates are interrupted and added bond strength is required—for example, where a wall intersects a column, a column intersects a floor, or a slab soffit meets a beam. Anchors have a low profile and can be installed behind brick façades or other building façades, and they can be finished with parge coats, brick overlays, or paint.

—Fortec Stabilization Systems, LLC, www.fortecstabilization.com



Guardian Fall Protection G-Bolt Concrete Swivel Anchor

The G-Bolt Concrete Swivel Anchor from Guardian Fall Protection can be used in a variety of fall protection applications. The specialized toggle design allows it to be easily installed and removed in a matter of seconds. Comprising stainless steel, galvanized steel, and aluminum, its durable components allow it to stand up against the roughest conditions. The anchor has a breaking strength of 5000 lb (2268 kg) and complies with OSHA 1910, OSHA 1926 Subpart M, ANSI Z359.18-17, and ANSI A10.32-12 standards.

—Guardian Fall Protection,
www.guardianfall.com



Red Head C6+

C6+ is the highest strength adhesive in Red Head's history. Designed for use in demanding anchoring applications, the maximum strength of C6+ is backed by ICC-ES approvals for both concrete and masonry. The adhesive can be used in oversized holes, and it is approved for use in core-drilled holes in cracked concrete. The new C6+ is at least 25% stronger than the old C6+ formulation for threaded rod anchorage in cracked concrete under seismic conditions. This product's cure time is 2.75 hours at 90°F (32°C) and 2 hours at 110°F (43°C). It can be applied to base material at temperatures ranging from 40°F (4°C) to 110°F. Product cartridges resist breakage due to rough handling or cold temperatures, and they have a 24-month shelf life.

—Red Head, www.itwredhead.com

W. R. MEADOWS POLY-GRIP

The W. R. MEADOWS POLY-GRIP is a two-component, styrene-free, acrylic system that can be used for anchoring and doweling applications in uncracked concrete using threaded rod or reinforcing bar. POLY-GRIP can also be used in short-term anchoring and shear-loading applications in accordance with allowable stress design (ASD). The system can be used and easily dispensed in temperatures between 15 and 95°F (-9 and 35°C). It offers a wide service temperature range between -40 and 176°F (-40 and 80°C) and can be installed and cured in damp and water-saturated environments due to its moisture-insensitive properties. POLY-GRIP can fully cure in 30 minutes at 77°F (25°C) in dry conditions.

—W. R. MEADOWS, www.wrmeadows.com



Powers Pure 110+ Epoxy Injection Adhesive Anchoring System

Pure110+ is a two-component adhesive anchoring system. The system includes injection adhesive in plastic cartridges, mixing nozzles, dispensing tools, and hole-cleaning equipment. Pure110+ is designed for bonding threaded rod and reinforcing bar hardware into drilled holes in solid concrete base materials. It is ICC-ES approved for cracked and uncracked concrete (ICC-ES ESR 3298).

—Powers, www.powers.com

Connect-EZ: PA-EX System

PA-EX is a low-profile concrete panel-to-foundation connection device that meets ACI 318-11, Provision 16.5.1.3(b), as its nominal tensile resistance exceeds 10,000 lb (4536 kg). The device is galvanized and can be installed on the exterior of precast panels. The PA-EX requires no field welding and can be tied to the foundation from the exterior of the wall using a threaded rod and epoxy. Only 4 in. (102 mm) of the PA-EX is exposed above the base of the tilt-up panel, so it can be easily concealed with pavement or landscaping.

—Connect-EZ, www.theconnect-ez.com