

Post-Installed Anchorage

Simpson Strong-Tie Anchor Systems® offers multiple adhesive and mechanical anchor options for post-installed anchorage in hardened concrete. The products below are reference in the tables in this section.

SET-XP™ Anchoring Adhesive

SET-XP is a 1:1 two component, high-solids epoxy-based anchoring adhesive formulated for optimum performance in both cracked and uncracked concrete. SET-XP adhesive has been rigorously tested in accordance with ICC-ES AC308 and 2006 IBC requirements and has proven to offer increased reliability in the most adverse conditions, including performance in cracked concrete under static and seismic loading. SET-XP adhesive is teal in color in order to be identified as a high performance adhesive for adverse conditions. Resin and hardener are dispensed and mixed simultaneously through the mixing nozzle.

When SET-XP™ adhesive is used with the IXP™ anchor, all thread rod, or rebar, the system can be used in tension and seismic zones where there is a risk of cracks occurring that pass through the anchor location. It is also suitable for uncracked-concrete conditions.

CODES: ICC-ES ESR-2508, City of L.A. pending; Florida FL 11506.5; NSF/ANSI Standard 61 (216 in²/1000 gal)

SET Anchoring Adhesive

SET epoxy is a two-component, low odor, 1:1 ratio, high-solids epoxy-based adhesive for use as a high-strength, non-shrink anchor grouting material. Resin and hardener are dispensed and mixed simultaneously through the mixing nozzle. SET meets or exceeds the ASTM C-881 specification for Type I, II, IV and V, Grade 3, Class B and C.

CODES: ICC-ES ESR-1772 (CMU and URM); City of L.A. RR25279; Florida FL 11506.4; Caltrans approved; multiple DOT listings; NSF/ANSI Standard 61 (216 in²/1000 gal), except SET1.7KTA. SET-PAC-EZ™ epoxy adhesive covered by ICC-ES, City of L.A. and NSF/ANSI listings only.

Acrylic-Tie® Anchoring Adhesive

Acrylic-Tie (AT) is a two component, 10:1 ratio acrylic-based adhesive for use as a high-strength, anchor grouting material. Formulated for use in all types of weather, AT is designed to dispense easily and cure at temperatures down to 0°F. Resin and initiator are dispensed and mixed simultaneously through the mixing nozzle. AT meets the physical requirements of ASTM C881, Type I and IV, Grade 3, Classes A, B and C, except Acrylic-Tie is a non-epoxy product formulated for fast cure time.

CODES: ICC-ES ER-5791* (CMU and URM); City of L.A. RR25459*; Florida FL 11506.1*; NSF/ANSI Standard 61 (11 in²/5000 gal); Multiple DOT listings. *Applies to all Acrylic-Tie products except AT10.

Titen HD® Heavy Duty Screw Anchor

The Titen HD anchor is a patented, high-strength screw anchor for concrete and masonry. It is designed for optimum performance in both cracked and uncracked concrete; a requirement that the 2006 IBC places on post-installed anchors. The high strength, easy-to-install Titen HD anchor has been tested and shown to provide outstanding performance in cracked and uncracked concrete under both static and seismic-loading conditions. The self undercutting, non-expansion characteristics of the Titen HD anchor make it ideal for structural applications, even at reduced edge distances and spacings. Recommended for permanent dry, interior non-corrosive environments or temporary outdoor applications.

CODES: ICC-ES ESR-2713 (concrete); ICC-ES ESR-1056 (CMU); City of L.A. RR25741 (concrete); City of L.A. RR25560 (CMU); Florida FL 11506.7; Factory Mutual 3017082.

For complete information on these, and other Simpson Strong-Tie Anchor Systems® products, see www.simpsonanchors.com or the Simpson Strong-Tie Anchor Systems *Anchoring and Fastening Systems for Concrete and Masonry* catalog.



SET-XP™ 22 oz.

EMN22i



EDT22B



SET22

EMN22i



EDT22B

8.5 oz. and 56 oz. cartridges and dispensing systems also available.



AT13 (AT08 similar)

AMN813



ADT813B

5 oz. 10 oz. and 30 oz. cartridges and dispensing systems also available



Titen HD®
screw anchor
U.S. Patent
5,674,035 and 6,623,228