

FAST ANCHORING & REPAIR ADHESIVE

Multi-Purpose Two-Component Structural Epoxy



PRODUCT DATASHEET

DESCRIPTION: Rapid Set® FAST ANCHORING & REPAIR ADHESIVE is a two-component, rigid structural epoxy anchoring repair adhesive designed to develop a strong, durable bond to concrete, masonry, and dissimilar building materials. The high-performance mechanical bond strength and pull-out strength make it suitable for use in a wide range of general construction, repair and maintenance projects.

USES: Use FAST ANCHORING & REPAIR ADHESIVE on properly prepared concrete and masonry substrates. It has a high chemical resistance for use in environments such as swimming pools with chlorine or near salt water. It is ideal for anchoring bolts, dowels, rebar, and wall ties to concrete, concrete blocks, stone, and other masonry substrates. Use as a mortar to fill holes, divets, pop-outs, and non-moving joints/cracks on concrete and masonry. This anchor and repair material is not intended for use as a cosmetic or decorative product. The resin may cause staining in certain materials.

SURFACE PREPARATION: Ensure the substrate is clean, sound and free of bond inhibitors, such as grease, oil, mold, coatings and sealers. Do not install anchor in delaminated or weak substrates. Follow the Technical Performance Specifications for Anchoring, at www.CTScement.com, to properly prepare the anchor hole.

APPLICATION: The minimum application temperature is 41°F (5°C) and rising. The maximum application temperature is 104°F (40°C). Cartridge temperature needs to be a minimum of 41°F (5°C); optimal temperature is 68°F (20°C). For best results, place adhesive when the ambient temperature is between 68°F and 86°F (20°C and 30°C). Ensure surface, personnel and equipment are ready before application. Unscrew top and screw on the provided nozzle onto the mouth of the cartridge. Insert the cartridge into a quality extrusion gun with a minimum of 18:1 thrust ratio. Extrude material with three full pumps until an even red color, without streaks, flows out. Refer to the Fast Anchoring Adhesive ESR-5206 Installation Instruction Card.

CURING: At 68°F (20°C), working time is 30 minutes and is load bearing ready in 10 hours.

Cartridge Temperature	Gel & Work Time	Cure Time Dry Substrate	Cure Time Wet Substrate
*41°F (5°C)	180 min	50 hours	100 hours
*50°F (10°C)	120 min	24 hours	48 hours
68°F (20°C)	30 min	10 hours	20 hours
86°F (30°C)	20 min	6 hours	12 hours
104°F (40°C)	12 min	4 hours	8 hours

*For installations in base material temperature between 41°F and 50°F (5°C and 10°C) the cartridge temperature must be conditioned to between 41°F and 68°F (5°C and 20°C).

COLD WEATHER: Installation in low temperatures will extend cure times of the Rapid Set® FAST ANCHORING & REPAIR ADHESIVE. To ease flow and placement in cold conditions, warm the cartridge above 50°F (10°C) for 24 hours prior to installation. Remove dew, frost or ice from the substrate with acetone on a clean cloth, then place adhesive immediately.

OVERVIEW

Highlights:

- Superior pull-out strength
- Use on cracked or uncracked concrete
- High chemical resistance
- Can be used for overhead applications
- Fill non-moving cracks and joints
- Bonds in water filled anchor holes

Conforms to:

ASTM C881 Type IV, Grade 3, Class A, B, C

Certified:

- ICC ES ESR-5206
- City of Los Angeles Building Code (LABC)
- City of Los Angeles Residential Code (LARC)
- International Building Code (IBC)
- International Residential Code (IRC)
- Florida Building Code
- Florida Residential Code

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- 03 05 07 Adhesives for Concrete
- 09 05 00 Adhesives – Common Work Results, Finishes
- 99 00 00 Construction & Industrial Products

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WARM WEATHER: Installation in warmer temperatures, at 86°F (30°C) and above, will not adversely affect adhesive performance. Warmer temperatures will decrease viscosity, working and cure time.

CLEAN-UP: Clean up with acetone and disposable rags before it hardens on placement tools and surfaces. Dispose of waste material in compliance with local regulations.

PACKAGING: FAST ANCHORING & REPAIR ADHESIVE is available in a 9.5 fl. oz. (280 mL) cartridge.

SHELF LIFE: When stored correctly, the shelf life is 24 months from the date of manufacture.

STORAGE: Store upright in original, unopened container, in a cool, dry, area. Protect unopened container from water, heat and direct sunlight. Store at 41°F to 85°F (5°C to 29°C). Elevated temperatures will reduce shelf life.

LIMITATIONS: Not for use in delaminated or weak substrates. The maximum long-term temperature of the base material should not exceed 110°F (43°C) and the maximum short-term temperature should not exceed 150°F (65°C). Consult a design professional prior to use. The design professional on the job is ultimately responsible for the interpretation of the data provided above and potential safety hazards.

For specific information on tension loads, anchor size, steel failure, pullout and concrete cone failure, concrete breakout, and concrete edge failure, consult the Fast Anchoring Adhesive Technical Performance Specification.

USER RESPONSIBILITY: Before using, read current technical data sheets, bulletins, product labels and safety data sheets. It is the user's responsibility to review the instructions and warnings for any CTS products prior to use. Wear chemical resistant gloves and protect eyes and skin during use. Do not attempt to force adhesive out of a hardened mixing nozzle. Use a new mixer nozzle to avoid rupturing the container. If a leak should develop, discontinue use immediately and use a new cartridge. While all reasonable care is taken in compiling technical data on the company's products, all recommendations or suggestions regarding the use of such products are made without guarantee, since the conditions of use are beyond the control of the company. It is the responsibility of the customer to confirm that the product is fit for the purpose for which it is intended to be used.

WARNING: DO NOT BREATHE VAPORS. AVOID CONTACT WITH SKIN AND EYE. Do not breathe vapors. Use product in well ventilated areas. Forced local exhaust is recommended to effectively minimize exposure. NIOSH approved, organic vapor respirators are recommended in confined areas, or when conditions (such as heated polymer, sanding) may cause high vapor concentrations. Do not weld on, burn, or torch any epoxy material. Hazardous vapor is released when an epoxy is burned. For additional information, refer to the precautionary statement on the Safety Data Sheet.

Please refer to the SDS and www.CTScement.com for additional safety information regarding this material.

LIMITED WARRANTY: CTS Cement Manufacturing Corp. (CTS) warrants its materials to be of good quality, and at its option, within 18 months from date of manufacture, will replace material proven defective or refund purchase price thereof, and such replacement or refund shall be the limit of CTS' responsibility. Except for the foregoing, all warranties, expressed or implied, including merchantability and fitness for a particular purpose, are excluded. CTS shall not be liable for any consequential, incidental, or special damages arising directly or indirectly from the use of the materials.

⚠ WARNING

CANCER and REPRODUCTIVE HARM - www.P65Warnings.ca.gov

TYPICAL PHYSICAL DATA

Color (when mixed)	Red
Gel Time ASTM C881	30 minutes
Bond Strength ASTM C882	1,980 psi (13.6 MPa) (2 day cure) 2,400 psi (16.5 MPa) (14 day cure)
Compressive Strength ASTM D695	11,360 psi (78.3 MPa) (7 days)
Compressive Modulus ASTM D695	670,000 psi (4619.5 MPa) (7 days)
Water Absorption ASTM D570	0.1%
Heat Deflection Temperature (HDT) ASTM D468	135° F (49°C)
Linear Coefficient of Shrinkage ASTM D2566	0.001 in/in
Shore D ASTM D2240	90 (15 hours)
Volatile Organic Compounds (VOC) ASTM D2369	70 g/L

Note: ASTM Standards are current unless otherwise stated.
Data obtained at 73°F (23°C)

VOC Compliance (Volatile Organic Compound)

Meets U.S. EPA 40 CFR 59 Subpart C & D; CARB: California Air Resource Board; LADCO: Lake Michigan Air Directors Consortium (Illinois, Indiana, Michigan, Wisconsin); MRPO: Midwest Regional Planning Organization (Illinois, Indiana, Michigan, Ohio, Wisconsin); SCAQMD: South Coast Air Quality Management District (Los Angeles, Orange, Riverside, San Bernardino Counties); and CEPA/EC: Canada Environmental Protection Agency/Environment.



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