

# HIGH STRENGTH ANCHORING EPOXY

PRODUCT NO. 8620-31

## PRODUCT DESCRIPTION

QUIKRETE® High Strength Anchoring Epoxy is a two-component, high modulus, structural epoxy with an extended working time of approximately 20 minutes at 77°F (25°C).

## PRODUCT USE

QUIKRETE® High Strength Anchoring Epoxy is a gray solvent-free, low odor, high strength, moisture insensitive, non-sag epoxy. QUIKRETE® High Strength Anchoring Epoxy is suitable for vertical or horizontal applications, including anchoring bolts, threaded rods and rebar dowels into concrete and masonry substrates. Suitable for fastening in grout filled block and unreinforced masonry, and seismic anchoring and bracing.

## SIZES

- QUIKRETE® High Strength Anchoring Epoxy – 8.6 oz (254 ml) cartridges

## TECHNICAL DATA

QUIKRETE® High Strength Anchoring Epoxy demonstrates typical physical properties as detailed in Table 1. Color mixed: gray.

**TABLE 1 TYPICAL PHYSICAL PROPERTIES**

|   |                         |
|---|-------------------------|
| Compressive yield strength, ASTM D 695 (7 days)                                     | 12,000 psi (82MPa)      |
| Compressive modulus, ASTM D695 (7 days)   | 240,000 psi (1,650 MPa) |
| Pullout strength-ultimate, ASTM E 488 (24 hours)<br>(5/8" threaded rod 5-5/8" deep) | 28,000 psi (193 MPa)    |
| VOC Content   | 8 g/L                   |

Maximum loads are calculated for a safety factor of 25% of ultimate load. A 5/8" diameter threaded rod in a 3/4" diameter hole embedded to 5 5/8" depth will yield an ultimate load of 28,000 lbs in 3,500 psi concrete at 4 hours at 77°F (25°C). Therefore the minimum load time is 4 hours for the allowable tension load of 7,000 lbs at 77°F (25°C).

## INSTALLATION

### ANCHOR HOLE PREPARATION

Prepare all anchor holes prior to placement of anchoring epoxy. Hole diameter is typically 1/8" (3 mm) greater than the anchor diameter. Hole depth is typically nine times anchor diameter. Recommended minimum anchor hole depth is 1". Consult project specifications and regulations. Drill hole to proper diameter and depth and blow all dust from the bottom of the hole, brush and blow repeatedly to remove all dust and debris. The anchor hole must be clean and free of standing water prior to placement of material.

## DIVISIONS 3 & 4

Concrete Anchoring  
03 31 51  
Masonry Anchorage  
04 08 00



## APPLICATION

**WEAR GLOVES.** Use only heavy duty professional caulking gun. Remove plastic cap and plugs from the cartridge. Save for closing cartridge (match white to white). Attach mixing nozzle to cartridge. Discard small amount of gunned product until uniform color is achieved. Mixing nozzle will harden in approximately 20 min if not in use.

Hardened nozzle must be discarded. Dispense the epoxy at the bottom of the hole while withdrawing nozzle. Dispense epoxy (typically filling 5/8 of hole) so that once threaded rod or rebar is inserted, the hole is completely full. Insert threaded rod or rebar to the bottom of the hole while turning clockwise. Promptly remove any excess material. Leave anchor undisturbed for 4 hours (at 77°F / 25°C), or longer for colder temperatures. Load can be applied at 4 hours at 77°F (25°C). Note: compressing the plunger half way fully dispenses all material.

## PRECAUTIONS

- **WEAR GLOVES**
- **CAUTION:** Do not attempt to force adhesive out of a hardened mixer nozzle. Use a new mixer nozzle to avoid rupturing the container. If a leak should develop, discontinue use immediately and use a new cartridge.
- **IRRITANT, SENSITIZER, CORROSIVE.** May cause allergic skin reaction or sensitization, eye and respiratory reaction after prolonged or repeated use..
- Wear chemical resistant gloves and protect eyes and skin during use.
- In case of skin contact, remove immediately – May use rubbing alcohol cautiously (alcohol is flammable). Once cured, the material is extremely difficult to remove.
- Read MSDS at [www.quikrete.com](http://www.quikrete.com)
- **Not for overhead anchoring.** Not for sustained long-term loads.
- Application temperature: 40°F to 95°F (4°C to 35°C). When temperatures are below 70°F (21°C) warming the cartridge before application will

improve handling and curing (warm to 77°F to 90°F / 25°C to 32°C).

- Storage temperature: 40°F to 90°F (4°C to 32°C)
- Service temperature: -30°F to 140°F (-34°C to 60°C)
- Uncured material can be removed from tools and surfaces with solvents such as: WD40, citrus adhesive removers, xylene, toluene, rubbing alcohol, or nail polish remover. Cured material can be removed only mechanically. Avoid contact with strong acids and oxidizers. Employ solvents cautiously; follow with soap and water as appropriate.

#### **WARRANTY**

The QUIKRETE® Companies warrant this product to be of merchantable quality when used or applied in accordance with the instructions herein. The product is not warranted as suitable for any purpose or use other than the general purpose for which it is intended. Liability under this warranty is limited to the replacement of its product (as purchased) found to be defective, or at the shipping companies' option, to refund the purchase price. In the event of a claim under this warranty, notice must be given to The QUIKRETE® Companies in writing. This limited warranty is issued and accepted in lieu of all other express warranties and expressly excludes liability for consequential damages.

The QUIKRETE® Companies

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