

High Strength Anchoring Epoxy

1. PRODUCT DESCRIPTION

- 1.1. BOMIX® High Strength Anchoring Epoxy is a two-component, fast-setting, high-strength, non-sag structural epoxy.
- 1.2. BOMIX® High Strength Anchoring Epoxy has a gel time of approximately 20 minutes at 24 °C (75 °F).

2. PRODUIT USE

- 2.1. BOMIX® High Strength Anchoring Epoxy is used for anchoring in concrete and masonry substrates including:
 - Anchoring
 - Bolts
 - Threaded rods
 - Rebar
 - Studs
 - Brooches
 - Ramps
- 2.2. BOMIX® High Strength Anchoring Epoxy is suitable for horizontal and vertical applications.
- 2.3. Suitable for fastening in grout filled blocks, unreinforced masonry and anchors.
- 2.4. Not for overhead anchoring.
- 2.5. Not for sustained long-term loads.
- 2.6. BOMIX® High Strength Anchoring Epoxy is solvent-free, low odor, high strength, insensitive to moisture and non-sag epoxy.

3. SIZES

- 3.1. BOMIX® High Strength Anchoring Epoxy - 254 ml (8.6 oz) tube in gray color (after combining part A and B).

4. TECHNICAL DATA

- 4.1. BOMIX® High Strength Anchoring Epoxy demonstrates typical physical properties as detailed in Table 1.

TABLE 1
TYPICAL PHYSICAL PROPERTIES

Compressive yield strength, ASTM D695 (7 days)	69 MPa (10,000 psi)
Compressive modulus, ASTM D695 (7 days)	1,650 MPa (240,000 psi)
Pullout strength, ASTM E488 (24 hours)*	124 kN (28,000 lbf)



* A 5/8" diameter threaded rod in a 3/4" diameter hole embedded to a 5-5/8" depth and cured at 75 °F for 24 hours in 24,1 Mpa (3,500 psi) concrete will yield an ultimate pullout strength of 124 kN (28,000 lbf).

At the minimum load time of 4 hours in the same conditions the ultimate pullout strength is 31 kN (7,000 lbf).

Reductions of 75% or greater to the ultimate pullout strength should be applied as a safety factor to determine the allowable load.

For example, after a 24 hour cure at 75 °F, the ultimate pullout strength of 124 kN (28,000 lbf) would equate to an allowable load of 31 kN (7,000 lbf).

5. INSTALLATION

- 5.1. Prepare all anchor holes prior to placement of anchoring epoxy.
- 5.2. Typically, the diameter of the hole is 3 mm (1/8 inch) larger than the diameter of the anchor rod. Hole depth is typically nine times the anchor diameter.
- 5.3. Recommended minimum anchor hole depth is 25.4 mm (1 in).
- 5.4. Consult project specifications and regulations.
- 5.5. Drill hole to proper diameter and depth.
- 5.6. Brush and blow repeatedly to remove all the dust and debris from the bottom of the hole.
- 5.7. The anchor hole must be clean and free of standing water prior to placement of material.

6. APPLICATION

- 6.1. **WEAR IMPERVIOUS GLOVES such as nitrile.**
- 6.2. Use only heavy-duty professional caulking gun.
- 6.3. Remove plastic cap and plugs from the cartridge. Save for closing cartridge (match white to white).
- 6.4. Attach mixing nozzle to cartridge.
- 6.5. Discard small amount of gunned product until uniform color is achieved.
- 6.6. Mixing nozzle will harden in approximately 20 min if not in use. Hardened nozzle must be discarded.
- 6.7. Dispense the adhesive at the bottom of the hole while withdrawing nozzle.
- 6.8. Dispense epoxy (typically 15,9 mm (5/8 in) of the hole) so that once threaded rod or rebar is inserted, the hole is completely full.
- 6.9. Insert threaded rod or rebar to the bottom of the hole while turning clockwise.
- 6.10. Promptly remove any excess material.
- 6.11. Leave anchor undisturbed for a minimum of 4 hours at 25 °C (77 °F), or longer for colder temperatures.
- 6.12. Load can be applied after 4 hours at 25 °C (77 °F).
- 6.13. Adhesive is fully cured and achieves best strength in 24 hours at 25 °C (77 °F).

Note: Compressing the plunger half way fully dispenses all material simultaneously from the front and back interior sections of the cartridge.

7. VOC CONTENT

- 7.1. <20.0 g / L - Meets all VOC requirements in all regions.

8. CLEANING

- 8.1. **IMMEDIATELY REMOVE PRODUCT FROM TOOLS.** 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. Employ solvents cautiously, follow with soap and water appropriate.

9. PRECAUTIONS

- 9.1. **WEAR IMPERVIOUS GLOVES such as nitrile.**
- 9.2. **CAUTION:** Do not attempt to force adhesive out of a hardened mixer nozzle. Use a new mixer nozzle to avoid rupturing the container.
- 9.3. Alternative is to dispense without nozzle into a disposable cup and mix with a disposable stirrer before applying with the stirrer.
- 9.4. If a leak should develop, stop use immediately. Proceed again. If a leak occurs, stop use immediately. Continue with a new cartridge and nozzle.
- 9.5. **IRRITANT, SENSITIZER, CORROSIVE.** May cause an allergic skin reaction or sensitization as well as an eye and respiratory reaction after prolonged or repeated use.
- 9.6. Wear chemical resistance gloves and protect eyes and skin during use.
- 9.7. In case of skin contact, remove immediately – May use rubbing alcohol cautiously (alcohol is flammable). Once cured, the material is extremely difficult to remove and can be removed only mechanically.
- 9.8. Read the SDS at www.bomix.ca.
- 9.9. Not for overhead anchoring. Not for sustained long-term loads.
- 9.10. APPLICATION TEMPERATURE: 4 °C (40 °F) to 35 °C (95 °F)
- 9.11. When the temperature are below 21 °C (70 °F), warming the cartridge before application will improve handlong and curing (warm to 25 °C to 32 °C (77 °F to 90 °F)).
- 9.12. SERVICE TEMPERATURE: -34 °C (-30 °F) to 60 °C (140 °F).
- 9.13. STORAGE TEMPERATURE: 4 °C (40 °F) to 32 °C (90 °F).
- 9.14. Remove from skin tools immediately.

10. WARRANTY

NOTICE: Obtain the applicable LIMITED WARRANTY at www.bomix.ca/product-warranty. Or send a written request to BOMIX, Five Concourse Parkway, Atlanta, GA 30328, USA. ©Quikrete Canada Holdings, Limited. Manufactured by or under the authority of Daubois Products Inc. ©2021 Quikrete International, Inc..