FasTrac CE308 Epoxy Anchor Gel

HIGH-STRENGTH EPOXY ANCHORING ADHESIVE

Technical Data Sheet

PRODUCT DESCRIPTION

FasTrac CE308 Epoxy Anchor Gel is a non-sag, 100% solids, two component anchoring adhesive that meets the requirements of ASTM C 881 and AASHTO M 235 Types I, II, IV and V, Grade 3, Classes B and C. FasTrac CE 308 Epoxy Anchor Gel provides high strengths and excellent bond development for tensile load applications. May be used as an anchoring adhesive, crack injection cap seal or for other non-sag applications.

APPLICATIONS

- Anchors and Dowels
- Setting Injection Ports
- Crack Sealing
- Structural Bonding
- Dry or Damp Applications

FEATURES

- High Modulus
- Non-Sag Gel
- 1:1 Cartridge / Mix Ratio
- High Bond Strengths
- Moisture Tolerant

PREPARATION

Anchoring: Drill specified sized hole based upon design depth and diameter. Blow out hole with oil-free compressed air. Insert wire brush into hole and scour all sides and bottom of drilled hole to loosen all drilling dust and debris. Blow out hole a second time with oil free compressed air until no dust or debris is observed exiting hole. Holes should be free of standing water and completely dry. Holes may be slightly damp but that may affect overall property development. Anchors, bolts, and dowels should be free of oils, grease and oxidation. Remove all substances that can inhibit the bond of epoxy to anchor.

Cap Seal for Injection: Remove any dust, paints or curing compounds from areas adjacent to cracks to be injected. Blow out cracks with oil free compressed air before applying cap seal.

MIXING & INSTALLATION

Best mixing and use are achieved when adhesive is between 65°F and 85°F (18.3°C and 29.4°C). For cartridges, install static mixer on cartridge ensuring positive seal. Cut tip as necessary. Begin dispensing using a 1:1 ratio manual or automated gun until a uniform color exits static mixer. Discard any material that is not of a uniform color. For larger units, mix at 1:1 ratio and put into caulking gun or pressure injection equipment.

Anchoring: Starting at bottom of hole, dispense adhesive and slowly move upward through hole. Do not begin dispensing adhesive from top of hole. Fill hole uniformly to approximately 2/3 full and insert anchor immediately. Anchors should be slowly rotated during insertion to promote wetting of anchor surfaces and minimize air entrapment. For larger packaged units, mix material at a 1:1 ratio in a clean, suitable sized container using slow speed drill and paddle until a uniform color is achieved. Do not whip air into adhesive during mixing.

Cap Seal for Injection: Apply FasTrac CE308 over and along full length of crack and around pre-set ports. Apply 1/4 to 1/2 inch wider than crack width using margin trowel. Ensure no pinholes or air pockets are in cap seal after application. Cap seal should have sufficient strength before injection pressures are applied. For fast turnaround applications, a heat gun may be used to accelerate strength development of FasTrac CE308.

CURING

FasTrac CE308 Epoxy Anchor Gel is self-curing. Do not add solvents during cure. Protect from rain and freezing temperatures until design strengths are achieved. Best property development occurs when temperatures are between 70°F and 90°F (21°C and 32°C).

CLEAN UP

All surfaces, tools and equipment may be cleaned with water and detergent prior to adhesive setting.

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PACKAGING, STORAGE AND SHELF LIFE

8.4 ounce (248 ml), 20.3 ounce (600 ml) and 50.7 ounce (1500 ml) cartridges, 1 Gallon (3.78 liter), 2 Gallon (7.57 liter) and 10 Gallon (37.85 liter) units.
2 years when stored under weatherproof conditions.
Storage temperatures - 50°F to 90°F (10°C to 32°C).

TYPICAL PROPERTIES at 75° F (23.8° C)		
TEST METHOD		**RESULTS**
Gel Time		20 minutes
Cure Time		2 to 3 hours
ASTM C882 Bond Strength		
	1 Day	2,000 psi (13.8 MPa)
	7 Days	2,500 psi (17.2 MPa)
Viscosity		¼ inch non - sag gel
ASTM D695 Compressive Strength (7 Days)		12,500 psi (86.2 MPa)
ASTM D695 Compressive Modulus (7 Days)		300,000 psi (2069 MPa)
ASTM C882 Slant Shear Bond (1 Day)		2,000 psi (13.8 MPa)
ASTM C882 Slant Shear Bond (7 Days)		2,500 psi (17.2 MPa)
ASTM D638 Tensile Strength		7,500 psi (51.7 MPa)
ASTM D638 Tensile Elongation		1.2%
ASTM D732 Shear Strength		2,800 psi (19.3 MPa)
ASTM C884 Thermal Compatibility		PASS
ASTM D648 Heat Deflection Temperature		140°F (60°C)

ESIMATING GUIDE & TENSION LOADS

ROD DIA. IN.(MM)	DRILL BIT DIA. IN.(MM)	EMBED. DEPTH IN.(MM)	HOLES PER 600ML (250ML) CART.	TENSION LOAD BASED ON BOND STRENGTH		ALLOWABLE TENSION LOAD LBS.(KN) BASED ON STEEL STRENGTH		
				ULTIMATE LBS.(KN)	ALLOWABLE LBS.(KN)	F1554 GRADE 36	A193 GRADE B7	F593 304SS
3/8 (9.5)	1/2 (12.7)	3 3/8 (8.6)	115 (50)	9,800 (43.6)	2,450 (10.9)	2,105 (9.4)	4,535 (20.2)	3,630 (16.1)
1/2 (12.7)	5/8 (15.9)	4 1/2 (11.4)	65 (25)	16,400 (73.0)	4,100 (18.2)	3,750 (16.7)	8,080 (35.9)	6,470 (28.8)
5/8 (15.9)	3/4 (19.1)	5 5/8 (14.3)	30 (15)	25,200 (112.1)	6,300 (28.0)	5,875 (26.1)	12,660 (56.3)	10,120 (45.0)
3/4 (19.1)	7/8 (22.2)	6 3/4 (17.1)	18 (7)	36,000 (160.1)	9,000 (40.0)	8,460 (37.6)	18,230 (81.1)	12,400 (55.2)
7/8 (22.2)	1 (25.4)	7 7/8 (20.0)	15 (6)	48,000 (213.5)	12,000 (53.4)	11,500 (51.2)	24,785 (110.2)	16,860 (75.0)
1 (25.4)	1 1/8 (28.6)	9 (22.9)	10 (4)	62,000 (275.8)	15,500 (69.0)	15,025 (66.8)	32,380 (144.0)	22,020 (97.9)
1 1/4 (31.8)	1 3/8 (34.9)	11 1/4 (286)	6 (3)	96,000 (427.0)	24,000 (106.8)	23,490 (104.5)	50,620 (225.2)	34,420 (153.1)

HEALTH AND SAFETY INFORMATION

This product contains Portland cement, silica sand and respirable silica. Respirable silica is a suspected human carcinogen by NTP and IARC. Use proper PPE when working with this material, including eye protection, gloves and NIOSH / MSHA approved dust masks or respiratory protection as required to prevent inhalation and accidental ingestion. Read SDS thoroughly before use.

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