

Epoxy Anchoring



Spec•Bond 201

High Modulus, Fast-Setting Epoxy Gel Adhesive

Description

Spec•Bond 201 is a fast-set, two-component, 100% solids, high modulus, epoxy gel adhesive that is moisture tolerant and meets the requirements of ASTM C-881. Spec•Bond 201 is available in dispensing cartridges or larger gallon units.

Use

Spec•Bond 201 primary use is for anchoring bolts, dowels and reinforcing steel in concrete, where a fast-set, high strength adhesive is required. Spec•Bond 201 may also be used for vertical and overhead structural bonding and patching, sealing of cracks and setting of injection ports.

Benefits

- High strength structural adhesion
- Ideal for anchoring of dowels and bolts, and reinforcing steel
- Easy dispensing; no mixing with prefilled cartridges
- Moisture tolerant
- Very fast setting
- Gel consistency
- Excellent adhesion

Applicable Standards

ASTM C-881, Type I, II, IV & V, Grade 3, Classes B & C



Packaging

Unit sizes:

- 1 quart (.95L)
- 1 gal. (3.8L)
- 2 gal. (7.6L)
- 10 gal. (37.8L)
- 22oz. dual cartridge (.65L)

Spec•Bond 201 Pull Out Chart

Threaded Rod B-12 Diameter	Hole Diameter	Embedment	Avg. Tensile Load ASTM E-488	Avg. Shear Load ASTM E-488
3/8"	1/2"	3"	9800 lbs.	3900 lbs.
1/2"	5/8"	4"	16,100 lbs.	7600 lbs.
5/8"	3/4"	5-1/2"	22,100 lbs.	15,700 lbs.
3/4"	7/8"	6-1/2"	32,300 lbs.	24,100 lbs.
7/8"	1"	8"	38,200 lbs.	32,000 lbs.
1"	1-1/8"	9"	53,500 lbs.	38,700 lbs.

Concrete strength = 4000 PSI Epoxy cure time = 19 hours Temperature = 65°F

Estimating Guide

Bolt Diameter Rebar Size	Hole Diameter	Hole Depth	Anchors per 22 Fl. Oz. Cartridge (.65L)	
			Threaded Rod	Rebar/Dowel
3/8"-#3 (1 cm)	1/2" (1.3 cm)	4" (10.2 cm)	101	115
1/2"-#4 (1.3 cm)	5/8" (1.6 cm)	5" (12.7 cm)	51	70
5/8"-#5 (1.6 cm)	3/4" (1.9 cm)	6" (15.2 cm)	26	33
3/4"-#6 (1.9 cm)	7/8" (2.2 cm)	7" (17.8 cm)	17	23
7/8"-#7 (2.2cm)	1" (2.5 cm)	8" (20.3 cm)	12	17
1"-#8 (2.5 cm)	1-1/8" (2.8 cm)	9" (22.9 cm)	9.3	13
1-1/4"-#10 (3.2 cm)	1-1/2" (3.8 cm)	9" (22.9 cm)	5.9	5.9

Division 5

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Sikadur® AnchorFix-1 Modified Acrylic Anchoring Adhesive

Description Sikadur AnchorFix-1 is a two-component, solvent- and styrene-free, modified acrylic anchoring adhesive.

Where to Use As a fast-curing anchoring adhesive for all grades of rebars, threaded rods, bolts and special fastening systems. Install in concrete and masonry base materials.

Packaging 10 fl. oz. (300mL) or 20 fl. oz. (550 mL) two-component collapsible “cartridge in cartridge” system. Ready to use with a standard, good quality caulking gun (10 fl. oz.) or sausage gun (20 fl. oz.).

Gel and Curing Times

Application Temperature	Gel Time	Cure Time
86°F (30°C)	3 min.	25 min.
68°F (20°C)	7 min.	50 min.
50°F (10°C)	22 min.	150 min.
41°F (5°C)	50 min.	200 min.
14°F (-10°C)	80 min.	24 hrs.



Sikadur® AnchorFix-1

- Fast-curing
- Styrene-free, solvent-free
- Low odor
- Low waste

Sikadur® AnchorFix-4 Sikadur Injection Gel – High Modulus, High Strength, Smooth Epoxy Paste Anchoring Adhesive

Description Sikadur AnchorFix-4 is a two-component, solvent-free, moisture tolerant, high modulus, high strength structural epoxy. When mixed, it gives a smooth, nonabrasive paste adhesive. It conforms to the current ASTM C-881 and AASHTO M-235 specifications.

Where to Use

- Structural crack repairs not exceeding 1/4” (6mm) width.
- Mechanical grouting – bolts, dowels, pins, machine and robotic base plates, bearing pads
- Waterproofing tunnels, cable vaults, tanks, basements, etc.
- Re-anchoring of veneer masonry.
- Wood-truss repairs.
- Preventative maintenance – grouting large cracks on new or existing structures to seal off reinforcing steel from the elements of corrosion.
- Anchor grouting – bolts, dowels, pins and special fasteners in concrete and masonry.
- As a pick-proof sealant around windows, doors, lock-ups, etc. inside correctional facilities.

Packaging 22 fl. oz. (650mL) side-by-side cartridge or 55 fl. oz. (1628mL) side-by-side cartridge.

Gel and Curing Times

Application Temperature	Gel Time	Cure Time
40°F (4°C)	60 min.	48 hrs.
60°F (15°C)	45 min.	36 hrs.
73°F (23°C)	35 min.	24 hrs.
90°F (32°C)	20 min.	24 hrs.



Sikadur® AnchorFix-4

- High strength
- Styrene-free
- Low odor
- Low waste
- Moisture tolerant
- ICC/ICBO ER 618