

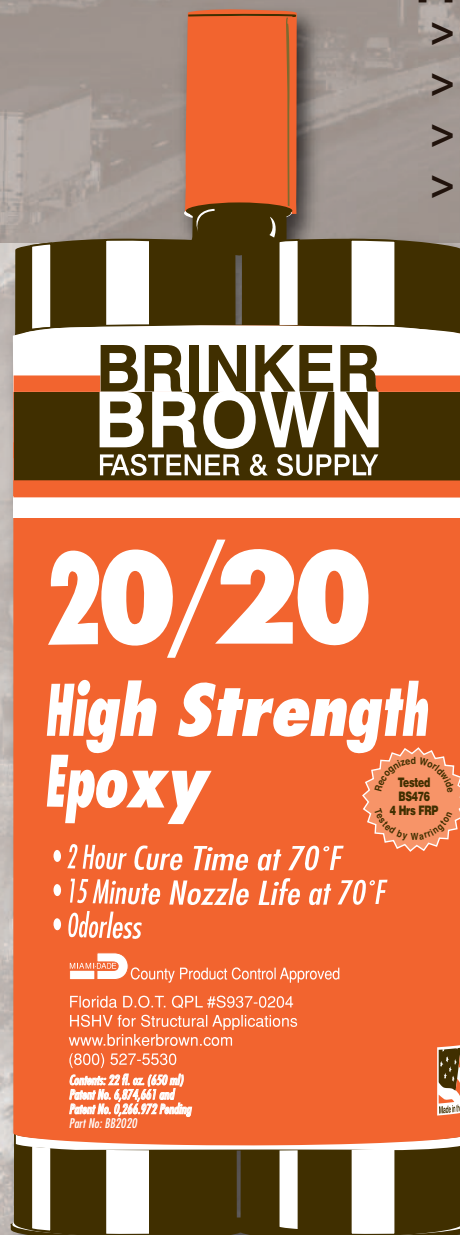
# D.O.T. Adhesive Anchoring


**FLORIDA DEPARTMENT OF TRANSPORTATION APPROVED**



## Applications:

- > rebar doweling
- > transfer construction joints
- > jersey barriers
- > bridge construction



- Meets "Buy  American" Provision in Section 1605
- Works in wet/damp holes
- Easier to install anchors in hot weather
- Can be used in cored or oversized holes
- Solid base materials

Brinker Brown 20/20 Adhesive  
22 Fluid Oz. Cartridge



Product Selection	
20/20*	22 oz. cartridge (6/carton)
E55*	Mixing nozzle (24/carton)
E102	Hand dispenser

\* Note: Sold in carton quantities only

Cure Times			
Base Material Temperature		Working Time	Full Cure Time
°F	°C		
110	43	9 min.	24 hours
90	32	9 min.	24 hours
70	20	15 min.	24 hours
50	10	15 min.	24 hours

Estimating Table																
BRINKER BROWN 20/20 22 Fluid Ounce Cartridge																
Number of Anchoring Installations per Cartridge* Using Rebar with 20/20 Adhesive in Solid Concrete																
REBAR	DRILL HOLE DIA. INCHES	EMBEDMENT DEPTH IN INCHES (mm)														
		1 (25.4)	2 (50.8)	3 (76.2)	4 (101.6)	5 (127.0)	6 (152.4)	7 (177.8)	8 (203.2)	9 (228.6)	10 (254.0)	11 (279.4)	12 (304.8)	13 (330.2)	14 (355.6)	15 (381.0)
# 3	1/2	388.9	194.5	129.6	97.2	77.8	64.8	55.6	48.6	43.2	38.9	35.4	32.4	29.9	27.8	25.9
# 4	5/8	293.8	146.9	97.9	73.5	58.5	49.0	42.0	36.7	32.6	29.4	26.7	24.5	22.6	21.0	19.6
# 5	3/4	225.4	112.7	75.1	56.3	45.1	37.6	32.2	28.2	25.0	22.5	20.5	18.8	17.3	16.1	15.0
# 6	7/8	182.0	91.0	60.7	45.5	36.4	30.3	26.0	22.7	20.2	18.2	16.5	15.2	14.0	13.0	12.1
# 7	1-1/8	87.2	43.6	29.1	21.8	17.4	14.5	12.5	10.9	9.7	8.7	7.9	7.3	6.7	6.2	5.8
# 8	1-1/4	77.6	38.8	25.9	19.4	15.5	12.9	11.1	9.7	8.6	7.8	7.1	6.5	6.0	5.5	5.2
# 9	1-3/8	81.0	40.5	27.0	20.2	16.2	13.5	11.6	10.1	9.0	8.1	7.4	6.7	6.2	5.8	5.4
# 10	1-1/2	66.2	33.1	22.1	16.6	13.2	11.0	9.5	8.3	7.4	6.6	6.0	5.5	5.1	4.7	4.4
# 11	1-3/4	40.5	20.2	13.5	10.1	8.1	6.7	5.8	5.1	4.5	4.0	3.7	3.4	3.1	2.9	2.7

\* The number of anchoring installations is based upon calculations of hole volumes using ANSI tolerance carbide tipped drill bits, the nominal areas of the reinforcing bars and the stress areas of the threaded rods. These estimates do not account for waste.

Performance Table									
Average Ultimate Tension Loads <sup>1,2,3</sup> for Reinforcing Bar Installed in Solid Concrete									
REINFORCING BAR DIA. In. (mm)	EMBEDMENT IN CONCRETE In. (mm)	2000 PSI (13.8 MPa) CONCRETE ULTIMATE TENSION Lbs. (kN)		4000 PSI (27.6 MPa) CONCRETE ULTIMATE TENSION Lbs. (kN)		ULTIMATE TENSILE AND YIELD STRENGTH GRADE 60 REBAR			
		MINIMUM YIELD STRENGTH Lbs. (kN)		MINIMUM ULTIMATE TENSILE STRENGTH Lbs. (kN)					
# 3 (9.5)	3-3/8 (85.7)	7,480	(33.3)	8,090	(35.9)	6,600	(29.4)	9,900	(44.0)
	4-1/2 (114.3)	--	--	10,488	(46.6)	6,600	(29.4)	9,900	(44.0)
# 4 (12.7)	4-1/2 (114.3)	--	--	14,471	(64.4)	12,000	(53.4)	18,000	(80.1)
	6 (152.4)	11,235	(50.0)	20,396	(90.7)	12,000	(53.4)	18,000	(80.1)
# 5 (15.9)	5-5/8 (142.9)	--	--	21,273	(94.6)	18,600	(82.7)	27,900	(124.1)
	7-1/2 (190.5)	18,108	(80.6)	31,863	(141.7)	18,600	(82.7)	27,900	(124.1)
# 6 (19.1)	6-3/4 (171.5)	--	--	27,677	(123.1)	26,400	(117.4)	39,600	(176.2)
	9 (228.6)	29,338	(130.5)	47,879	(212.9)	26,400	(117.4)	39,600	(176.2)
# 7 (22.2)	7-7/8 (200.0)	--	--	43,905	(195.3)	36,000	(160.1)	54,000	(240.2)
	10-1/2 (266.7)	--	--	52,046	(231.5)	36,000	(160.1)	54,000	(240.2)
# 8 (25.4)	9 (228.6)	--	--	55,676	(247.7)	47,400	(210.9)	71,100	(316.3)
	12 (304.8)	48,000	(213.5)	77,358	(344.1)	47,400	(210.9)	71,100	(316.3)
# 9 (28.6)	10-1/8 (257.2)	--	--	62,443	(277.8)	60,000	(266.9)	90,000	(400.4)
	13-1/2 (342.9)	--	--	71,959	(320.1)	60,000	(266.9)	90,000	(400.4)
# 10 (31.8)	11-1/4 (285.8)	--	--	70,165	(312.1)	76,200	(339.0)	114,300	(508.5)
	15 (381.0)	--	--	78,545	(349.4)	76,200	(339.0)	114,300	(508.5)

1 Allowable working loads for the single installations under static loading should not exceed 25% ultimate capacity or the allowable load of the anchor rod.

2 Ultimate load values in 2000 and 4000 psi stone aggregate concrete. Ultimate loads are indicated for the embedment shown in the Embedment in Concrete column. Performance values are based on the use of minimum Grade 60 reinforcing bar. The use of lower strength rods will result in lower ultimate tension and shear loads.

3 SHEAR DATA: Provided the distance from the rebar to the edge of the concrete member exceeds 1.25 times the embedment depth of the rebar, calculate the ultimate shear load for the rebar anchorage as 60% of the ultimate tensile strength of the rebar.



12290 Crystal Commerce Loop • Fort Myers, FL 33966  
 Phone: 239-939-3535 • Fax: 239-939-1691 • Toll Free: 800-527-5530

369 Industrial Blvd. • Naples, FL 34104  
 Phone: 239-643-3500 • Fax: 239-643-6554 • Toll Free: 800-527-5530