

GENERAL INFORMATION

AC50™

Adhesive Anchoring System

PRODUCT DESCRIPTION

The AC50 is a two-component, adhesive anchoring system. The system includes injection adhesive in plastic cartridges, mixing nozzles, dispensing tools and hole cleaning equipment. AC50 is designed for bonding threaded rod and reinforcing bar hardware into drilled holes in solid concrete base materials.

GENERAL APPLICATIONS AND USES

- Bonding threaded rod and reinforcing bar into hardened concrete
- Evaluated for installation and use in dry holes in concrete
- Can be installed in a range of base material temperatures including as low as 5°F (-15°C)

FEATURES AND BENEFITS

- + Designed for use with threaded rod and reinforcing bar hardware elements
- + Cartridge design allows for multiple uses using extra mixing nozzles
- + Mixing nozzles proportion adhesive and provide simple delivery method into drilled holes
- + Evaluated and recognized for long term and short term loading

APPROVALS AND LISTINGS

- Conforms to requirements of ASTM C881 including C882 and AASHTO M235, Types I, II, IV and V, Grade 3, Classes A & B (also meets Type III except for elongation)
- Tested in accordance with ASTM E488
- Department of Transportation listings see www.DEWALT.com or contact transportation agency

CHINE SPECIFICATIONS

CSI Divisions: 03 16 00 - Concrete Anchors and 05 05 19 - Post-Installed Concrete Anchors. Adhesive anchoring system shall be AC50 as supplied by DEWALT, Towson, MD. Anchors shall be installed in accordance with published instructions and requirements of the Authority Having Jurisdiction.

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AC50 ADHESIVE IN CARTRIDGE (STANDARD THREADED ROD AND REBAR STEEL SUPPLIED BY OTHERS)

PACKAGING (10:1 MIX RATIO)

Coaxial Cartridge

• 14 fl. oz. (420 mL or 25.5 in³)

Dual Cartridge (side-by-side)

• 28 fl. oz. (825 mL or 50 in³)

STORAGE LIFE & CONDITIONS

Fifteen months in a dry, dark environment with temperature ranging from 32°F to 86°F (0°C to 30°C)

ANCHOR SIZE RANGE (TYPICAL)

- 3/8" to 1" diameter threaded rod
- No. 3 to No. 8 rebar

SUITABLE BASE MATERIALS

· Normal-weight concrete

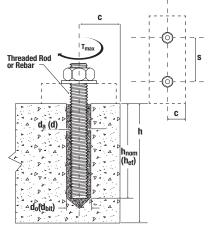


INSTALLATION SPECIFICATIONS

Installation Specifications for Threaded Rod and Reinforcing Bar

Dimens	ion/Property	Notation	Units		Non	ninal Anchor	Size	
Threaded Rod		-	in.	3/8	1/2	5/8	3/4	1
Reinforcing Bar		-	No.	#3	#4	#5	#6	#8
Nominal anchor diameter		da (d)	in. (mm)	0.375 (9.5)	0.500 (12.7)	0.625 (15.9)	0.750 (19.1)	0.875 (22.2)
Nominal drill bit size (ANSI)		d _o (d _{bit})	in.	7/16	9/16	11/16 or 3/4	7/8	1-1/8
Minimum embedment	h _{nom} in. 2-3/8 2-3/4 3-1/8 (mm) (60) (70) (79)			3-1/2 (89)	4 (102)			
Minimum concrete member thickne	ess	h _{min}	in. (mm)		1-1/4 + 30)		h _{nom} + 2d _o	
Minimum spacing distance		Smin	in. (mm)	1-7/8 (48)	2-1/2 (64)	3-1/8 (79)	3-3/4 (95)	5 (127)
Minimum edge distance (up to 100% T _{max})		Cmin	in. (mm)	1-7/8 (48)	2-1/2 (64)	3-1/8 3-3/4 5		5 (127)
Maximum torque (only possible after full cure time of adhesive)	ASTM A36 or F1554 Grade 36	T _{max}	ft lbs. (N-m)	10 (13)	25 (34)	50 (68)	90 (122)	165 (224)
	ASTM F593 Condition CW stainless steel rod or ASTM A193 Grade B7 carbon steel rod	T _{max}	ft lbs. (N-m)	15 (20)	30 (41)	60 (81)	105 (142)	165 (224)

Detail of Steel Hardware Elements used with Injection Adhesive System



Nomenclature

= Diameter of anchor do (dbit) = Diameter of drilled hole = Base material thickness h_{nom} (h_{ef}) = Embedment depth = Spacing of anchors = Edge distance = Maximum torque

Threaded Rod and Deformed Reinforcing Bar Material Properties

Steel Description (General)	Steel Specification (ASTM)	Nominal Anchor Size (inch/No.)	Minimum Yield Strength, f _y (psi)	Minimum Ultimate Strength, f _u (psi)
	A36 or F1554 Grade 36	0/0 Homework 1	36,000	58,000
	F1554 Grade 55	3/8 through 1	55,000	75,000
Carbon rod	A449	3/8 through 1	92,000	120,000
	A193, Grade B7 or F1554 Grade 105	3/8 through 1	105,000	125,000
	F568M Class 5.8	3/4 through 1	58,000	72,500
	F593 Condition CW	3/8 through 5/8	65,000	100,000
	F393 CONTUNION GW	3/4 through 1	45,000	85,000
Stainless rod	A193/193M Grade B8/B8M, Class 1	3/8 through 1	30,000	75,000
	A193/A193M Grade B8/B8M2, Class 2B	3/8 through 1	75,000	95,000
	A615, A767, Grade 40	#3 through #6	40,000	60,000
	A615, A767, Grade 60	#2 through #0	60,000	80,000
Reinforcing bar	A706, A767, Grade 60	#3 through #8	60,000	80,000
	A615, A767, Grade 75	#3 through #8	75,000	100,000
	A615, A767, Grade 80	#3 through #8	80,000	100,000
Tabulated material (properties are provided for referen	ce; other steel hardware e	elements may also be	considered.



PERFORMANCE DATA (ASD)

Ultimate and Allowable Tension Load Capacities for AC50 Installed with Threaded Rod into Normal Weight Concrete (based on bond strength/concrete capacity)^{1,2,3,4,5,6}



	Minimum		Mi	inimum Concrete Com	pressive Strength, f'c				
Nominal Anchor	Embedment	2,500 psi (1	7.2 MPa)	3,000 psi	(20.7 MPa)	4,000 psi	4,000 psi (27.6 MPa)		
Diameter d in.	Depth h _{rom} in. (mm)	Ultimate Tension Load Capacity Ibs. (kN)	Allowable Tension Load Capacity Ibs. (kN)	Ultimate Tension Load Capacity Ibs. (kN)	Allowable Tension Load Capacity Ibs. (kN)	Ultimate Tension Load Capacity Ibs. (kN)	Allowable Tension Load Capacity Ibs. (kN)		
3/8	3-3/8	6,520	1,630	6,765	1,690	7,165	1,790		
	(86)	(29.0)	(7.3)	(30.1)	(7.5)	(31.9)	(8.0)		
1/2	4-1/2	11,860	2,965	12,300	3,075	13,025	3,255		
	(114)	(52.8)	(13.2)	(54.7)	(13.7)	(57.9)	(14.5)		
5/8	5-5/8	18,520	4,630	19,205	4,800	20,345	5,085		
	(143)	(82.4)	(20.6)	(85.4)	(21.4)	(90.5)	(22.6)		
3/4	6-3/4	22,420	5,605	23,255	5,815	24,630	6,160		
	(172)	(99.7)	(24.9)	(103.4)	(25.9)	(109.6)	(27.4)		
1	9	29,005	7,250	30,080	7,520	31,860	7,965		
	(229)	(129.0)	(32.2)	(133.8)	(33.5)	(141.7)	(35.4)		

- 1. Allowable load capacities listed are calculated using an applied safety factor of 4.0. Consideration of safety factors of 10 or higher may be necessary depending on the application, such as life safety.
- 2. Linear interpolation may be used to determine allowable loads for intermediate and compressive strengths.
- 3. The tabulated load values are applicable to single anchors installed at critical edge and spacing distances of 3 times the embedment depth and where the minimum member thickness is the greater of [hoom + 1-1/4"] and [hoom + 2dbit].
- 4. The tabulated load values are applicable for dry uncracked concrete installed into holes drilled with a hammer drill and an ANSI carbide drill bit.
- 5. Adhesives experience reductions in capacity at elevated temperatures. See the in-service temperature chart for allowable load capacity reduction factors.
- 6. Allowable bond strength/concrete capacity must be checked against allowable steel strength in tension to determine the controlling allowable load. Allowable shear capacity is controlled by allowable steel strength for the given conditions.

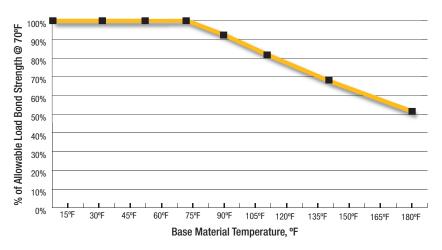
Ultimate and Allowable Tension Load Capacities for AC50 Installed with Reinforcing Bar into Normal Weight Concrete (based on bond strength/concrete capacity)^{1,2,3,4,5,6}

	Minimum		Mi	inimum Concrete Comp	oressive Strength, f'c		
Nominal Anchor	Embedment	2,500 psi (1	7.2 MPa)	3,000 psi	(20.7 MPa)	4,000 psi	(27.6 MPa)
Diameter d in.	Depth h _{nom} in. (mm)	Ultimate Tension Load Capacity Ibs. (kN)	Allowable Tension Load Capacity Ibs. (kN)	Ultimate Tension Load Capacity Ibs. (kN)	Allowable Tension Load Capacity Ibs. (kN)	Ultimate Tension Load Capacity Ibs. (kN)	Allowable Tension Load Capacity Ibs. (kN)
#3	3-3/8	6,225	1,555	6,460	1,615	6,840	1,710
	(86)	(27.7)	(6.9)	(28.7)	(7.2)	(30.4)	(7.6)
#4	4-1/2	10,480	2,620	10,870	2,720	11,515	2,880
	(114)	(46.6)	(11.7)	(48.4)	(12.1)	(51.2)	(12.8)
#5	5-5/8	16,830	4,210	17,455	4,365	18,490	4,625
	(143)	(74.9)	(18.7)	(77.6)	(19.4)	(82.2)	(20.6)
#6	6-3/4	15,545	3,885	16,120	4,030	17,075	4,270
	(172)	(69.1)	(17.3)	(71.7)	(17.9)	(76.0)	(19.0)
#6	9	16,015	4,005	16,610	4,155	17,590	4,400
	(229)	(71.2)	(17.8)	(73.9)	(18.5)	(78.2)	(19.6)
#8	9	34,095	8,525	35,360	8,840	37,455	9,365
	(229)	(151.7)	(37.9)	(157.3)	(39.3)	(166.6)	(41.7)
#8	12	39,060	9,765	40,510	10,130	42,910	10,730
	(305)	(173.7)	(43.4)	(180.2)	(45.1)	(190.9)	(47.7)

- 1. Allowable load capacities listed are calculated using an applied safety factor of 4.0. Consideration of safety factors of 10 or higher may be necessary depending on the application, such as life safety.
- 2. Linear interpolation may be used to determine allowable loads for intermediate compressive strengths.
- 3. The tabulated load values are applicable to single anchors installed at critical edge and spacing distances of 3 times the embedment depth and where the minimum member thickness is the greater of [h_{nom} + 1-1/4"] and [h_{nom} + 2dbit].
- 4. The tabulated load values are applicable for dry uncracked concrete installed into holes drilled with a hammer drill and an ANSI carbide drill bit.
- 5. Adhesives experience reductions in capacity at elevated temperatures. See the in-service temperature chart for allowable load capacity reduction factors.
- 6. Allowable bond strength/concrete capacity must be checked against allowable steel strength in tension to determine the controlling allowable load. Allowable shear capacity is controlled by allowable steel strength for the given conditions.



In-Service Temperature Chart For Allowable Load Capacities (based on bond strength/concrete capacity)





Allowal	bie Loa	ad Cap	acities	s tor I	nread	ea Koc	and	Keinto	rcing	Bar (B	ased (on Ste	ei Stre	ngth)'	,2,3,4			01516H
Nominal							Steel Ele	ements -	Threaded	l Rod and	d Reinfor	cing Bar						
Rod Diameter or Rebar		F1554, le 36	A36 or Grad	F1554, le 55	B7 or	Grade F1554, e 105	F 593,	CW (SS)	ASTM Grad Rei	le 40	ASTM Grad Rei	e 60	ASTM Grad Re		ASTM Grad Re	le 75	ASTM Grad Rei	
Size (in. or No.)	Tension lbs. (kN)	Shear lbs (kN)	Tension lbs. (kN)	Shear lbs (kN)	Tension lbs. (kN)	Shear lbs (kN)	Tension lbs. (kN)	Shear lbs (kN)	Tension lbs. (kN)	Shear lbs (kN)	Tension lbs. (kN)	Shear lbs (kN)	Tension lbs. (kN)	Shear lbs (kN)	Tension lbs. (kN)	Shear lbs (kN)	Tension lbs. (kN)	Shear lbs (kN)
3/8 or #3	2,115 (9.4)	1,090 (4.8)	2,735 (12.2)	1,410 (6.3)	4,555 (20.3)	2,345 (10.4)	3,645 (16.2)	1,880 (8.4)	2,210 (9.8)	1,125 (5.0)	2,650 (11.8)	1,500 (6.7)	2,650 (11.8)	1,500 (6.7)	2,650 (11.8)	1,875 (8.3)	2,650 (11.8)	1,875 (8.3)
1/2 or #4	3,760 (16.7)	1,935 (8.6)	4,860 (21.6)	2,505 (11.1)	8,100 (36.0)	4,170 (18.5)	6,480 (28.8)	3,340 (14.9)	3,925 (17.5)	2,005 (8.9)	4,710 (21.0)	2,670 (11.9)	4,710 (21.0)	2,670 (11.9)	4,710 (21.0)	3,335 (14.8)	4,710 (21.0)	3,335 (14.8)
5/8 or #5	5,870 (26.1)	3,025 (13.5)	7,595 (33.8)	3,910 (17.4)	12,655 (56.3)	6,520 (29.0)	10,125 (45.0)	5,215 (23.2)	6,135 (27.3)	3,130 (13.9)	7,365 (32.8)	4,170 (18.5)	7,365 (32.8)	4,170 (18.5)	7,365 (32.8)	5,215 (23.2)	7,365 (32.8)	5,215 (23.2)
3/4 or #6	8,455 (37.6)	4,355 (19.4)	10,935 (48.6)	5,635 (25.1)	18,225 (81.1)	9,390 (41.8)	12,390 (55.1)	6,385 (28.4)	8,835 (39.3)	4,505 (20.0)	10,605 (47.2)	6,010 (26.7)	10,605 (47.2)	6,010 (26.7)	10,605 (47.2)	7,510 (33.4)	10,605 (47.2)	7,510 (33.4)
7/8 or #7	11,510 (51.2)	5,930 (26.4)	14,885 (66.2)	7,665 (34.1)	24,805 (110.3)	12,780 (56.8)	16,865 (75.0)	8,690 (38.7)	-	-	14,430 (64.2)	8,180 (36.4)	14,430 (64.2)	8,180 (36.4)	14,430 (64.2)	10,220 (45.5)	14,430 (64.2)	10,220 (45.5)
1 or #8	15,035 (66.9)	7,745 (34.5)	19,440 (86.5)	10,015 (44.5)	32,400 (144.1)	16,690 (74.2)	22,030 (98.0)	11,350 (50.5)	-	-	18,850 (83.8)	10,680 (47.5)	18,850 (83.8)	10,680 (47.5)	18,850 (83.8)	13,350 (59.4)	18,850 (83.8)	13,350 (59.4)
#9	-	-	-	-	-	-	-	-	-	-	23,985 (106.7)		23,985 (106.7)	13,590 (60.5)	23,985 (106.7)		23,985 (106.7)	16,990 (75.6)
1-1/4	23,490 (104.5)		30,375 (135.1)	15,645 (69.6)	50,620 (225.2)	26,080 (116.0)			-	-	-	-	-	-	-	-	-	-
#10	-	-	-	-	-	-	-	-	-	-					30,405 (135.2)		30,405 (135.2)	21,535 (95.8)

- 1. AISC defined steel strength (ASD) for threaded rod: Tensile = $0.33 \bullet F_u \bullet A_{nom}$, Shear = $0.17 \bullet F_u \bullet A_{nom}$
- 2. For reinforcing bars: The allowable steel tensile strength is based on 20 ksi for Grade 40 and 24 ksi for Grade 60 and higher, applied to the cross sectional area of the bar; allowable steel shear strength = 0.17 • Fu • Anom
- 3. Allowable load capacities are calculated for the steel element type. Consideration of applying additional safety factors may ne necessary depending on the application, such as life safety
- 4. Allowable steel strength in tension must be checked against allowable bond strength/concrete capacity in tension to determine the controlling allowable load.



INSTALLATION INSTRUCTIONS (SOLID BASE MATERIALS)

DRII I IN



- 1- Drill a hole into the base material with rotary hammer drill (i.e. percussion drill) and a carbide drill bit to the size and embedment required by the selected steel hardware element (reference installation specifications for threaded rod and reinforcing bar). The tolerances of the carbide drill bits, including hollow bits, must meet ANSI Standard B212.15.
- Precaution: Use suitable eye and skin protection. Avoid inhalation of dust during drilling and/or removal.
- Note! In case of standing water in the drilled hole (flooded hole condition), all the water has to be removed from the hole (e.g. vacuum, compressed air, etc.) prior to cleaning.

Drilling in dry base materials is recommended when using hollow drill bits (vacuum must be on).

HOLE CLEANING (BLOW 4X, BRUSH 4X, BLOW 4X)



- 2a- Starting from the bottom or back of the anchor hole, blow the hole clean using a compressed air nozzle (min. 90 psi) a minimum of four times (4x).
- Use a compressed air nozzle (min. 90 psi) for anchor rod 3/8" to 1" diameter or reinforcing bar (rebar) sizes #3 to #8.



- **2b-** Determine wire brush diameter (reference hole cleaning equipment selection table) and attach the brush with adaptor to a rotary drill tool or battery screwgun. Brush the hole with the selected wire brush a minimum of four times (4x). A brush extension (supplied by DEWALT) should be used for holes drilled deeper than the listed brush length.
- The wire brush diameter should be checked periodically during use. The brush must be replaced if it becomes worn or does not come into
 contact with the sides of the drilled hole.



- **2c-** Finally, blow the hole clean again a minimum of four times (4x)
- Use a compressed air nozzle (min. 90 psi) for anchor rod 3/8" to 1" diameter or reinforcing bar (rebar) sizes #3 to #8.
- When finished the hole should be clean and free of dust, debris, ice, grease, oil or other foreign material.

PREPARING



- 3- Check adhesive expiration date on cartridge label. Do not use expired product. Review Material Safety Data Sheet (MSDS) before use. Cartridge temperature must be between 32°F 95°F (0°C 35°C) when in use. Consideration should be given to the reduced gel time of the adhesive in warm temperatures.
- Attach a supplied mixing nozzle to the cartridge. Do not modify the mixer in any way and make sure the mixing element is inside the nozzle. Load
 the cartridge into the correct dispensing tool. A new mixing nozzle must be used for every working interruption longer than the published working
 times (reference gel time and curing time table) as well as for new cartridges.



4- Prior to inserting the anchor rod or rebar into the filled bore hole, the position of the embedment depth has to be marked on the anchor. Verify anchor element is straight and free of surface damage.



- 5- For new cartridges and nozzles; prior to dispensing adhesive into the anchor hole, squeeze out separately a minimum three full strokes of the mixed adhesive. Discard non-uniform adhesive until the adhesive is a consistent gray color. Do not attach a used nozzle when changing to a new cartridge.
- Review and note the published working and cure times (see gel time and curing time table) prior to injection of the mixed adhesive into the cleaned anchor hole.

INSTALLATION



- **6-** Fill the cleaned hole approximately two-thirds full with mixed adhesive starting from the bottom or back of the anchor hole. Slowly withdraw the mixing nozzle as the hole fills to avoid creating air pockets or voids. For embedment depth greater than 8" an extension nozzle must be used with the mixing nozzle.
- Piston plugs (see adhesive piston plug table) must be used with and attached to the mixing nozzle and extension tube for horizontal installations
 where embedment is greater than 8 inches and the drill bit size is larger than 5/8-inch. Insert piston plug to the back of the drilled hole and inject
 as described in the method above. During installation the piston plug will be naturally extruded from the drilled hole by the adhesive pressure.



Attention! Do not install anchors overhead or upwardly inclined.



7- The anchor should be free of dirt, grease, oil or other foreign material. Push clean threaded rod or reinforcing bar into the anchor hole while turning slightly to ensure positive distribution of the adhesive until the embedment depth is reached. Observe the gel (working) time.



8- Be sure that the anchor is fully seated at the bottom of the hole and that some adhesive has flowed from the hole and all around the top of the anchor. If there is not enough adhesive in the hole, the installation must be repeated. Minor adjustments to the anchor may be performed during the gel time but the anchor shall not be moved after final placement and during cure.

CURING AND LOADING



- 9- Allow the adhesive anchor to cure to the specified full curing time prior to applying any load (see gel time and curing time table).
- · Do not disturb, torque or load the anchor until it is fully cured.



- **10-** After full curing of the adhesive anchor, a fixture can be installed to the anchor and tightened up to the maximum torque (reference gel time and curing table) by using a calibrated torque wrench.
- Take care not to exceed the maximum torque for the selected anchor.



REFERENCE INSTALLATION TABLES

Gel (working) Time and Curing Table

Temperature o	f Base Material	Gel (working) Time	Full Curing Time					
°F	°C	Ger (working) Time	ruii Curing Time					
5	-15	120 minutes	48 hours					
14	-10	90 minutes	24 hours					
23 -5 90 minutes 14 hours								
32	0	45 minutes	7 hours					
41	5	35 minutes	4 hours					
59	15	15 minutes	3 hours					
68	20	8 minutes	90 minutes					
86	30	4 minutes	60 minutes					
95	95 35 3 minutes 45 minutes							
For installations in base material temperatures b	etween 5°F and 32°F the cartridge temperature n	nust be conditioned to between 68°F and 95°F (20)°C - 35°C)					

Wire Brush Selection Table for AC50 Adhesive Anchors^{1,2}

Drill Bit Diameter (inch)	Nominal Wire Brush Size (inch)	Brush Length (inches)	Steel Wire Brush (Cat. #)	Blowout Tool
7/16	7/16	7	08284-PWR	
9/16	9/16	7	08285-PWR	
11/16	11/16	9	08286-PWR	Compressed air
3/4	3/4	9	08278-PWR	nozzle only Cat. #8292-PWR
7/8	7/8	9	08287-PWR	(min. 90 psi)
1	1	11	08288-PWR	
1-1/8	1-1/8	11	08289-PWR	

- 1. An SDS-plus adaptor (Cat. #08283-PWR) or Jacobs chuck style adaptor (Cat. #08296-PWR) is required to attach a steel wire brush to the drill tool.
- 2. A brush extension (Cat. #08282-PWR) must be used with a steel wire brush for holes drilled deeper than the listed brush length.

Piston Plug Selection Table for Adhesive Anchors^{1,2}

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Drill Bit Diameter (inch)	Plug Size (inch)	Piston Plug (Cat. #)	Premium Piston Plug (Cat. #)
11/16	11/16	08258-PWR	PFC1691515
3/4	3/4	08259-PWR	PFC1691520
7/8	7/8	08300-PWR	PFC1691530
1	1	08301-PWR	PFC1691540
1-1/8	1-1/8	08303-PWR	PFC1691550

- 1. All horizontal installations require the use of piston plugs where the embedment depth is greater than 8 inches and the drill bit size is larger than 5/8-inch.
- 2. A flexible plastic extension tube (Cat. #08281-PWR or #08297-PWR) or equivalent approved by DEWALT must be used with piston plugs.



ORDERING INFORMATION

AC50 Cartridges (10:1 mix ratio)

Cat. No.	Description	Pack Qty.	Pallet Qty.
08597SD-PWR	AC50 14 fl. oz. coaxial cartridge	12	540
08497-PWR	AC50 28 fl. oz. dual cartridge	8	240
	ackaged with each cartridge. s must be used to ensure complete and proper mixing of the adhesive.		



Cartridge System Mixing Nozzles

Cat. No.	Description	Pack Qty.	Std. Carton
PFC1641600	Mixing nozzle (with 8" extension)	2	24
08609-PWR	High flow mixing nozzle (with 8" extension)	2	24
08281-PWR	Mixing nozzle extension, 8" minimum	2	24



Dispensing Tools for Injection Adhesive

Cat. No.	Description	Pack Qty.	Std. Carton					
08414-PWR	14 oz. Standard metal manual tool	1	-					
08494-PWR	28 oz. Standard metal manual tool	1	10					
DCE595D1	28 oz. 20v Battery powered dispensing tool	1	-					
08496-PWR	28 oz. Pneumatic tool	1	-					



Hole Cleaning Tools and Accessories

Cat. No.	Description	Pack Qty.
08284-PWR	Wire brush for 7/16" or 1/2" ANSI hole, 7" length	1
08285-PWR	Wire brush for 9/16" ANSI hole, 7" length	1
08275-PWR	Wire brush for 5/8" ANSI hole, 7" length	1
08286-PWR	Wire brush for 11/16" ANSI hole, 9" length	1
08278-PWR	Wire brush for 3/4" ANSI hole, 9" length	1
08287-PWR	Wire brush for 7/8" ANSI hole, 9" length	1
08288-PWR	Wire brush for 1" ANSI hole, 11" length	1
08289-PWR	Wire brush for 1-1/8" ANSI hole, 11" length	1
08276-PWR	Wire brush for 1-1/4" ANSI hole, 11" length	1
08290-PWR	Wire brush for 1-3/8" ANSI hole, 11" length	1
08291-PWR	Wire brush for 1-1/2" ANSI hole, 11" length	1
08273-PWR	Wire brush for 1-5/8" ANSI hole, 11" length	1
08299-PWR	Wire brush for 1-3/4" ANSI hole, 11" length	1
08271-PWR	Wire brush for 2" ANSI hole, 11" length	1
08272-PWR	Wire brush for 2-3/16" ANSI hole, 11" length	1
08283-PWR	SDS-plus adapter for steel brushes	1
08296-PWR	Standard drill adapter for steel brushes (e.g. Jacobs Chuck)	1
08282-PWR	Steel brush extension, 12" length	1
DFC165100	Air blow gun kit with extension & guard, 22" length	1

Piston Plugs for Adhesive Anchors

Cat. No.	Description	ANSI Drill Bit Dia.	Pack Qty.
08258-PWR	11/16" Plug	11/16"	10
08259-PWR	3/4" Plug	3/4"	10
08300-PWR	7/8" Plug	7/8"	10
08301-PWR	1" Plug	1"	10
08303-PWR	1-1/8" Plug	1-1/8"	10
08305-PWR	1-3/8" Plug	1-3/8"	10
08309-PWR	1-1/2" Plug	1-1/2"	10

Premium Piston Plugs

Cat. No.	Description	ANSI Drill Bit Dia.	Pack Qty.
PFC1691510	5/8" Plug	5/8"	1
PFC1691515	11/16" Plug	11/16"	1
PFC1691520	3/4" Plug	3/4"	1
PFC1691530	7/8" Plug	7/8"	1
PFC1691540	1" Plug	1"	1
PFC1691550	1-1/8" Plug	1-1/8"	1
PFC1691555	1-1/4" Plug	1-1/4"	1
PFC1691560	1-3/8" Plug	1-3/8"	1
PFC1691570	1-1/2" Plug	1-1/2"	1
PFC1691580	1-3/4" Plug	1-3/4"	1
PFC1691590	2" Plug	2"	1
PFC1691600	2-3/16" Plug	2-3/16"	1