



**Free
Nozzle
With Each
Cartridge**



**CODE LISTED
ICC-ES ESR-3298
CRACKED AND
UNCRACKED CONCRETE**

- High Bond Strength
- Meets 2012 Building Code 110°F Long Term Temperature Requirements
- Same Bond Strength At 110°F As At Room Temperature

Pure 110+™ Epoxy

Adhesive Anchoring System



Pure110+™

Epoxy Injection Adhesive Anchoring System



PACKAGING FORMATS

Coaxial Cartridge :

9 fl. oz. (265 mL or 16.2 in³)

Dual (side-by-side) Cartridge:

21 fl. oz. (620 mL or 37.8 in³), 1:1 mix ratio

Dual (side-by-side) Cartridge:

13 fl. oz. (385 mL or 23.5 in³), 3:1 mix ratio

Dual (side-by-side) Cartridge:

20 fl. oz. (585 mL or 35.7 in³), 3:1 mix ratio

STORAGE LIFE & CONDITIONS

Two years in a dry, dark environment with temperature ranging from 41°F to 95°F (5°C to 35°C)

ANCHOR SIZE RANGE (TYP.)

3/8" to 1-1/4" diameter threaded rod

No. 3 to No. 10 reinforcing bar (rebar)

SUITABLE BASE MATERIALS

Normal-weight concrete,
Lightweight concrete



This Product Available In



Powers Design Assist
Real Time Anchor Design Software
www.powersdesignassist.com

CODE LISTED
ICC-ES ESR-3298

PRODUCT DESCRIPTION

Pure110+ is a two-component adhesive anchoring system. The system includes injection adhesive in plastic cartridges, mixing nozzles, dispensing tools and hole cleaning equipment. Pure110+ 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 and wet holes, including underwater
- Can be installed in a wide range of base material temperatures

FEATURES AND BENEFITS

- Designed for use with threaded rod & reinforcing bar hardware elements
- Evaluated and recognized for freeze/thaw performance
- 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

International Code Council, Evaluation Service (ICC-ES) ESR-3298 for cracked and uncracked concrete

Code Compliant with 2012 International Building Code (IBC) and International Residential Code (IRC)
Qualified to ACI 355.4 for long term temperature requirements (minimum temperature of 110°)

Conforms to requirements of ASTM C 881, Types I, II, IV and V, Grade 3, Classes B & C (also meets Type III except for elongation)

Department of Transportation listings – see www.powers.com or contact transportation agency

Tested in accordance with AC308 and AC58 for use in structural concrete and masonry

Evaluated and qualified by an accredited independent testing laboratory for recognition in cracked and uncracked concrete including seismic and wind loading

Compliant with NSF/ANSI 61 for drinking water system components - health effects; minimum requirements for materials in contact with potable water and water treatment

GUIDE SPECIFICATIONS

CSI Divisions: 03 16 00 - Concrete Anchors, 04 05 19.26 Masonry Anchors and 05 05 19 Post-Installed Concrete Anchors. Adhesive anchoring system shall be Pure110+ as supplied by Powers Fasteners, Inc., Brewster, NY. Anchors shall be installed in accordance with published instructions and requirements of the Authority Having Jurisdiction (AHJ).

- **High bond strength***
- **Maximum creep resistance†**
- **Formulated for high temperature**



* 990 PSI bond strength in cracked concrete for 1/2" threaded rod at 110°F

† Same bond strength at 110°F as at room temperature for long-term loading. Creep means a time-dependent deformation at elevated temperature and constant stress for adhesive loss of adhesion.

Pure110+ Advantages:

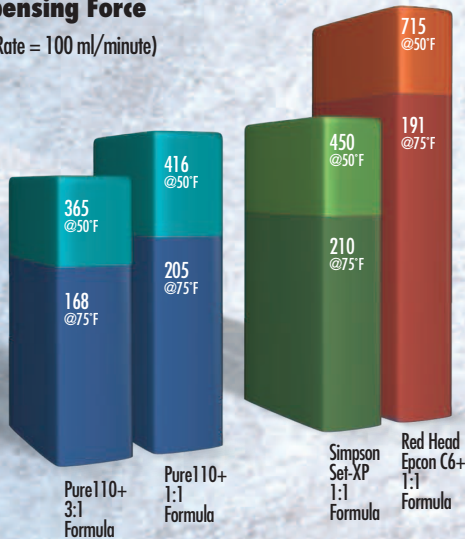
Pure110+™

- High Bond Strength at 110°F
- 2012 Building Code Compliant; Approved for Seismic & Cracked Concrete
- No Reduction in Bond Strength Due to Service Temperature Shifts
- 3:1 Formula Designed for Maximum Dispensability with Less Force
- Straightforward Hole Cleaning Method
- Fast Curing Times



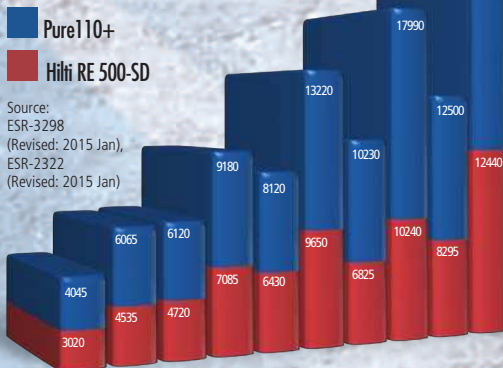
Dispensing Force

(Flow Rate = 100 ml/minute)



Factored Tension Loads (LBS) - Cracked Concrete

(2500 psi, 110°F, Rod ASTM A193, Grade B7)



Ø Anchor (")	1/2	3/8	5/8	1	1 1/4	1 3/4	2	2 1/2	3	
h _{ef} (")	4	6	5	7-1/2	6	9	10-1/2	7/8	8	12


Competitive Analysis	Powers Pure110+®	Simpson SET-XP®	Red Head Epcon C6+®	Hilti RE500-SD®
Adhesive Type And Mixing Ratio	Epoxy 1:1, Epoxy 3:1	Epoxy 1:1	Epoxy 1:1	Epoxy 3:1
Independent Approvals For Concrete	ICC-ES ESR-3298	ICC-ES ESR-2508	ICC-ES ESR-3577	ICC-ES ESR-2322
Florida Building Code Supplement	✓	✗	✓	✓
NSF/ANSI Std 61 For Drinking Water	✓	✓	✓	✓
Cracked Concrete Approved	✓	✓	✓	✓
Approved For Seismic	✓	✓	✓	✓
Approved Drilling Methods	Hammer	Hammer	Hammer	Hammer, Core
Approved Anchor Elements	Threaded Rod, Rebar	Threaded Rod, Rebar	Threaded Rod, Rebar	Rod, Rebar, Inserts
Approved Steel Types	Zinc Plated, Stainless	Zinc Plated, Stainless	Zinc Plated, Stainless	Zinc Plated, Stainless
Approved Anchor Sizes	3/8" – 1-1/4" (#3 – #10)	3/8" – 1-1/4" (#3 – #8, #10)	3/8" – 1-1/4" (#3 – #8, #10)	3/8" – 1-1/4" (#3 – #10)
Maximum Embedment Depths	20 Diameters	20 Diameters	20 Diameters	20 Diameters
Installation Temperature Range	50°F-104°F	50°F-110°F	40°F-104°F	41°F-104°F
Bond Strength Cracked (PSI) – 110°F ¹	990	510	796	740
Overhead Installations – Max Diameter	1-1/4"	1-1/4"	1-1/4"	1-1/4"
Hole Cleaning Effort	Blow 2X Brush 2X Blow 2X	Blow 4X Brush 4X Blow 4X	Blow 2X Brush 2X Blow 2X	Blow 2X Brush 2X Blow 2X
Water-Filled Holes?	✓	✗	✓	✓
Approved Service Temperature Short Term	140°F	150°F	130°F	130°F
Approved Service Temperature Long Term	110°F	110°F	110°F	110°F
Working Time At 68°F	25 Minutes	45 Minutes	15 Minutes	30 Minutes
Minimum Curing Time At 68°F	8 Hours	24 Hours	7 Hours	12 Hours
Cartridge Offerings	9oz, 21oz (1:1) 13oz, 20oz (3:1)	9oz, 22oz, 56oz	10oz, 20oz	11oz, 17oz

1. Bond strength based on 1/2" diameter, cracked concrete, long-term loading dry concrete.

Simpson and Set-XP are both registered trademarks of Simpson Strong-Tie Company, Inc. | Red Head and Epcon are both registered trademarks of Illinois Tool Works, Inc. | Hilti is a registered trademark of Hilti Aktiengesellschaft Corporation.

Pure110+™

REFERENCE TABLES FOR INSTALLATION

Gel (working) Time and Curing Table				Adhesive Piston Plugs					
Temperature of Base Material		Gel (Working) Time	Full Curing Time	Threaded Rod Diameter (Inch)	Rebar Size (No.)	ANSI Drill Bit Diameter (Inch)	Plug Size (Inch)	Plastic Plug (Cat. #)	Horizontal Installations
°F	°C								
50	10	90 minutes	24 hours	1/2	#4	9/16	9/16	08302	
68	20	25 minutes	8 hours	5/8	#5	11/16	11/16	08258	
86	30	20 minutes	8 hours	5/8	#5	3/4	3/4	08259	
95	35	15 minutes	6 hours	3/4	#6	7/8	7/8	08300	
104	40	12 minutes	4 hours	7/8	#7	1	1	08301	
				1	#8	1-1/8	1-1/8	08303	
				1-1/4	#9	1-3/8	1-3/8	08305	
				-	#10	1-1/2	1-1/2	08309	

Hole Cleaning Equipment Selection Table for Pure110+

Threaded Rod Dia. (Inch)	Rebar Size (No.)	ANSI Drill Bit Dia. (Inch)	Min. Brush Dia., Dmin (Inches)	Brush Length, L (Inches)	Steel Wire Brush (Cat. #)	Blowout Tool	Number Of Cleaning Actions
Solid Base Material							
3/8	#3	7/16	0.475	6-3/4	08284	Compressed air nozzle only (min. 90 psi)	2x blowing 2x brushing 2x blowing
1/2	#4	9/16	0.600	6-3/4	08285		
5/8	#5	11/16	0.735	7-7/8	08286		
		3/4	0.790	7-7/8	08278		
3/4	#6	7/8	0.920	7-7/8	08287		
7/8	#7	1	1.045	11-7/8	08288		
1	#8	1-1/8	1.175	11-7/8	08289		
1-1/4	#9	1-3/8	1.425	11-7/8	08290		
-	#10	1-1/2	1.550	11-7/8	08291		

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



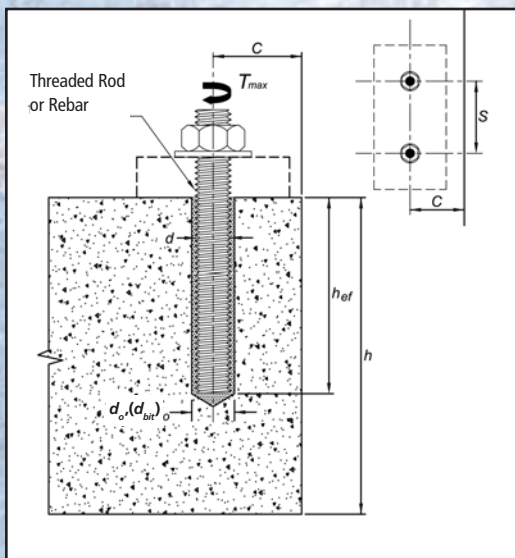
INSTALLATION SPECIFICATIONS

Installation Specifications for Threaded Rod and Reinforcing Bar

Dimension/Property		Notation	Units	Nominal Anchor Size								
Threaded Rod				3/8"	1/2"	5/8"	3/4"	7/8"	1"	-	1-1/4"	-
Reinforcing Bar				#3	#4	#5	#6	#7	#8	#9	-	#10
Nominal anchor diameter		d	in. (mm)	0.375 (9.5)	0.500 (12.7)	0.625 (15.9)	0.750 (19.1)	0.875 (22.2)	1.000 (25.4)	1.125 (28.7)	1.250 (31.8)	1.250 (32.2)
Nominal diameter of drilled hole		d _o (d _{bit})	in.	7/16 ANSI	9/16 ANSI	3/4 ANSI	7/8 ANSI	1 ANSI	1-1/8 ANSI	1-3/8 ANSI	1-3/8 ANSI	1-1/2 ANSI
Minimum embedment		h _{ef,min}	in. (mm)	2-3/8 (60)	2-3/4 (70)	3-1/8 (79)	3-1/2 (89)	3-1/2 (89)	4 (102)	4-1/2 (114)	5 (127)	5 (127)
Maximum embedment		h _{ef,max}	in. (mm)	7-1/2 (191)	10 (254)	12-1/2 (318)	15 (381)	17-1/2 (444)	20 (508)	22-1/2 (572)	25 (635)	25 (635)
Minimum concrete member thickness		h _{min}	in. (mm)	h _{ef} + 1-1/4 (h _{ef} + 30)				h _{ef} + 2 d _o				
Minimum spacing distance		s _{min}	in. (mm)	1-7/8 (48)	2-1/2 (64)	3-1/8 (79)	3-3/4 (95)	4-3/8 (24)	5 (127)	5-5/8 (143)	6-1/4 (159)	6-1/4 (159)
Minimum edge distance ¹		c _{min}	in. (mm)	1-3/4 (44)	1-3/4 (44)	1-3/4 (44)	1-3/4 (44)	1-3/4 (44)	1-3/4 (44)	5-5/8 (143)	2-3/4 (70)	6-1/4 (159)
Maximum torque (only possible after full cure time of adhesive)	A36 or F1554 Grade 36	T _{max}	ft.- lbs. (N-m)	10 (13)	25 (34)	50 (68)	90 (122)	125 (169)	165 (224)	200 (271)	280 (380)	280 (380)
	F593 Conditions CW stainless steel rod or ASTM A 193 Grade B7 carbon steel rod	T _{max}	ft.- lbs. (N-m)	15 (21)	33 (45)	60 (81)	105 (142)					
Effective cross sectional area of threaded rod		A _{se}	in. ² (mm ²)	0.078 (50)	0.142 (92)	0.226 (146)	0.335 (216)	0.462 (298)	0.606 (391)	-	0.969 (625)	-
Effective cross sectional area of reinforcing bar		A _{se}	in. ² (mm ²)	0.110 (71)	0.200 (129)	0.310 (200)	0.440 (284)	0.600 (387)	0.790 (510)	1.000 (645)	-	1.270 (819)

1. For installations between the minimum edge distance and 5 anchor diameters, the tabulated maximum torque must be reduced (multiplied) by a factor of 0.40.

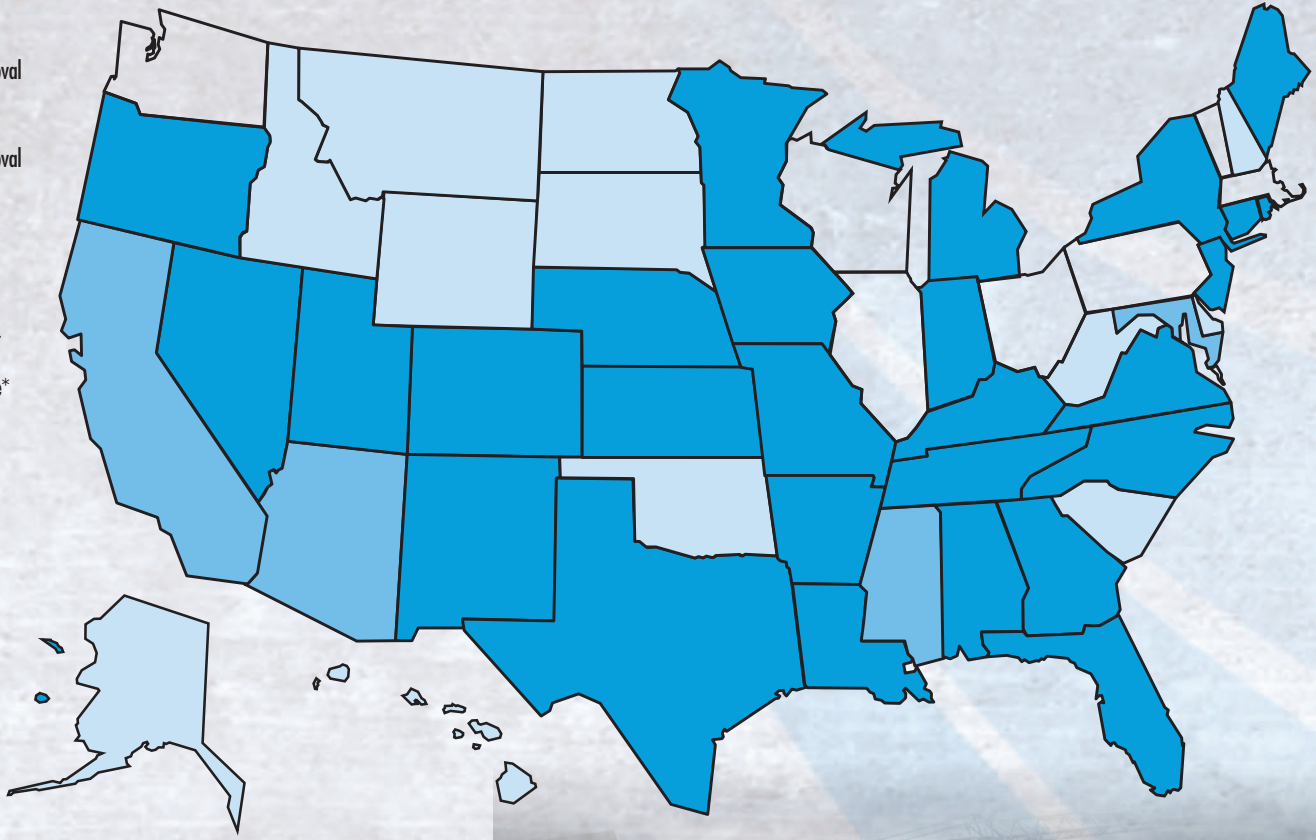
Detail of Steel Hardware Elements used with Injection Adhesive System



Threaded Rod and Deformed Reinforcing Bar Material Properties				
Steel Description (General)	Steel Specification (ASTM)	Nominal Anchor Size (inch)	Minimum Yield Strength, f _y (ksi)	Minimum Ultimate Strength, f _u (ksi)
Carbon rod	A 36 or F 1554 and Grade 36	3/8 through 1-1/4	36.0	58.0
Stainless rod (Alloy 304 / 316)	F 593, Condition CW	3/8 through 5/8	65.0	100.0
		3/4 through 1-1/4	45.0	85.0
High strength carbon rod	A 193, Grade B7	3/8 through 1-1/4	105.0	125.0
Grade 75 reinforcing bar	A 615	3/8 through 1 (#3 through #10)	75.0	100.0
Grade 60 reinforcing bar	A 615, A 767, or A 996	3/8 through 1 (#3 through #10)	60.0	90.0
Grade 40 reinforcing bar	A 615	3/8 through 3/4 (#3 through #6)	40.0	70.0

PURE110+ UNITED STATES DOT LISTINGS

- Pure110+ DOT Approval
- Pure110+ DOT Approval Pending
- Products Approved on a Project-By-Project Acceptance*



Pure110+ DOT Approval		
Alabama	Kentucky	New Mexico
Arkansas	Louisiana	New York
Colorado	Maine	North Carolina
Connecticut	Michigan	Oregon
Florida	Minnesota	Rhode Island
Georgia	Missouri	Tennessee
Indiana	Nebraska	Texas
Iowa	Nevada	Utah
Kansas	New Jersey	Virginia
Pure110+ DOT Approval Pending		
Arizona	Maryland	
California	Mississippi	
Approved on a Project-By Project Acceptance*		
Alaska	Montana	South Carolina
Delaware	New Hampshire	South Dakota
Hawaii	North Dakota	West Virginia
Idaho	Oklahoma	Wyoming
No Approval		
Illinois	Ohio	Wisconsin
Massachusetts	Vermont	
Pennsylvania	Washington	

*Some states do not maintain an approval list for anchoring systems. For approval, contact local engineering authority for acceptance project by project. Contact Powers customer service department at (800) 524-3244 for project submittal materials or download available submittal materials from www.powers.com



ORDERING INFORMATION

Pure110+ Cartridges

Cat. No.	Description	Std. Box	Std. Ctn.	Pallet
08310SD	Pure110+ 9 fl. oz. Quik-Shot cartridge (1:1 mix ratio)	12	24	432
08321SD	Pure110+ 21 fl. oz. cartridge (1:1 mix ratio)	12	-	540
08313SD	Pure110+ 13 fl. oz. dual cartridge (3:1 mix ratio)	12	-	540
08320SD	Pure110+ 20 fl. oz. dual cartridge (3:1 mix ratio)	12	-	540

One Pure110+ mixing nozzle is packaged with each cartridge. Pure110+ mixing nozzles must be used to ensure complete and proper mixing of the adhesive.

Cartridge System Mixing Nozzles

Cat. No.	Description	Std. Pkg.	Std. Ctn.
08294	Extra mixing nozzle (with 8" extension) for Pure110+ Quik-Shot	2	24
08281	Mixing nozzle extension, 8" minimum	2	24
08609	Extra high flow mixing nozzle (with 8" extension) for Pure110+ dual cartridge	2	24

Dispensing Tools for Injection Adhesive

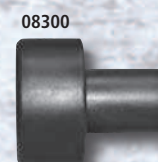
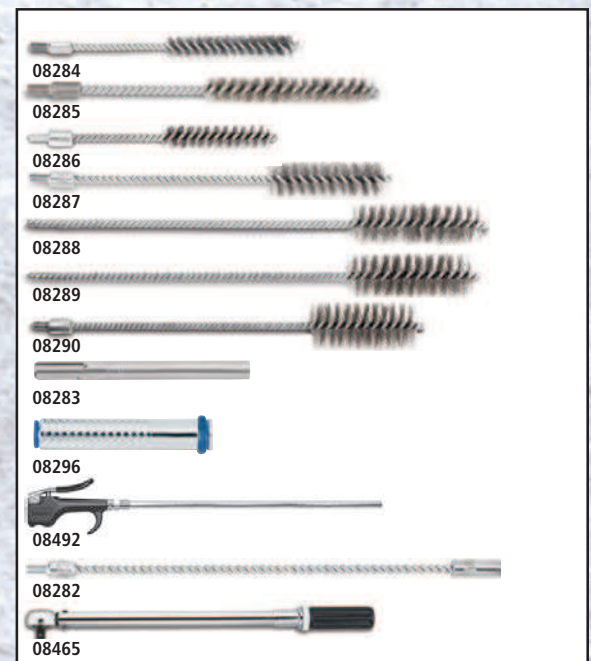
Cat. No.	Description	Std. Box	Std. Ctn.
08409	21 fl. oz. Standard metal manual tool	1	10
08421	21 fl. oz. High performance manual tool	1	10
08442	21 fl. oz. Battery powered tool (cordless)	1	-
08413	21 fl. oz. Pneumatic tool	1	-
08437	Manual caulking gun for Quik-Shot	1	12
08479	High performance caulking gun for Quik-Shot	1	12
08298	13 + 20 fl. oz. Manual tool (3:1 mix ratio)	1	6
08279SD	13 + 20 fl. oz. Battery powered tool (3:1 mix ratio)	1	-
08497SD	13 + 20 fl. oz. Pneumatic tool (3:1 mix ratio)	1	6

Hole Cleaning Tools and Accessories

Cat. No.	Description	Std. Pkg.
08284	Wire brush for 7/16" ANSI hole (3/8" rod or #3 rebar)	1
08285	Wire brush for 9/16" ANSI hole (1/2" rod or #4 rebar)	1
08286	Wire brush for 11/16" ANSI hole (5/8" rod or #5 rebar)	1
08278	Wire brush for 3/4" ANSI hole (5/8" rod or #5 rebar)	1
08287	Wire brush for 7/8" ANSI hole (3/4" rod or #6 rebar)	1
08288	Wire brush for 1" ANSI hole (7/8" rod)	1
08289	Wire brush for 1-1/8" ANSI hole (1" rod or #8 rebar)	1
08290	Wire brush for 1-3/8" ANSI hole (1-1/4" rod)	1
08283	SDS-Plus adapter for steel brushes	1
08296	Standard drill adapter for steel brushes (e.g. Jacobs Chuck)	1
08282	Steel brush extension, 12"	1
08292	Air compressor nozzle with extension	1
08465	Adjustable torque wrench with 1/2" square drive (10 to 150 ft.-lbs.)	1
08466	Adjustable torque wrench with 1/2" square drive (25 to 250 ft.-lbs.)	1

Adhesive Pistons

Cat. No.	Description	ANSI Drill Dia.	Threaded Rod Size	Reinforcing Bar Size	Std. Bag
08302	9/16" Plug	9/16"	1/2"	#4	10
08258	11/16" Plug	11/16"	5/8"	#5	10
08259	3/4" Plug	3/4"	5/8"	#5	10
08300	7/8" Plug	7/8"	3/4"	#6	10
08301	1" Plug	1"	7/8"	#7	10
08303	1-1/8" Plug	1-1/8"	1"	#8	10
08305	1-3/8" Plug	1-3/8"	1-1/4"	#9	10
08309	1-1/2" Plug	1-1/2"	-	#10	10



POWERS FASTENERS BRANCH INFORMATION

USA LOCATIONS FOR US CUSTOMER SERVICE

1-800-524-3244

CITY	ADDRESS	PHONE	FAX
Alabama	5405 Buford Hwy Suite 410 Norcross, GA 30071-3984	678-966-0000	678-966-9242
Atlanta	5405 Buford Hwy Suite 410 Norcross, GA 30071-3984	678-966-0000	678-966-9242
Boston	2 Powers Lane, Brewster, NY 10509	800-524-3244	877-871-1965
Charlotte	349 L West Tremont Avenue, Charlotte, NC 28203	704-375-5012	704-376-5517
Chicago	2472 Wisconsin Avenue, Downers Grove, IL 60515	630-960-3156	630-960-3912
Dallas	1300 IH 35 North, Suite #118, Carrollton TX 75006	972-446-5985	972-446-3674
Denver	2475 West Second Street #35, Denver, CO 80223	303-922-9202	303-922-9228
Detroit	21600 Wyoming Avenue, Oak Park, MI 48237	248-543-8600	248-543-8601
Florida	2412 Lynx Lane, Orlando, FL 32804	813-626-4500	813-626-4545
Houston	13833 North Promenade, Suite 100, Stafford, TX 77477	281-491-0351	281-491-0367
Indianapolis	15290 Stony Creek Way, Noblesville, IN 46060	317-773-1668	317-773-1690
Los Angeles	2761 Dow Avenue, Tustin, CA 92780	714-731-2500	714-731-2566
Maryland	3137-B Pennsy Drive, Landover, MD 20785	301-773-1722	301-341-5119
Milwaukee	12020 W. Feerick Street, Milwaukee, WI 53222	414-466-2400	414-466-3993
Minneapolis	351 Wilson Street, NE Minneapolis, MN 55413	612-331-3770	612-331-3549
Missouri	3225 Harvester Road, Kansas City, KS 66115	816-472-5033	816-472-5040
New Orleans	13833 North Promenade, Suite 100, Stafford, TX 77477	281-491-0351	281-491-0367
New York	2 Powers Lane, Brewster, NY 10509	800-524-3244	877-871-1965
Philadelphia	2 Powers Lane, Brewster, NY 10509	800-524-3244	877-871-1965
Phoenix	3602 E. Southern Ave, Suite 5 Phoenix, AZ 85040	602-431-8024	602-431-8027
Pittsburgh	2 Powers Lane, Brewster, NY 10509	800-524-3244	877-871-1965
Portland	18609 72nd Avenue South, Kent, WA 98032-1082	425-251-0312 844-483-4243	425-251-0369 844-303-1784
Rochester	36 Van Auker Blvd., Rochester, NY 14608	800-524-3244 585-529-4188	877-871-1965 585-529-5319
Salt Lake City	3120 W. California Ave, Suite E, Salt Lake City, UT 84104	801-466-9428	801-466-3083
San Francisco	28970 Hopkins Street, Suite B+C, Hayward, CA 94545	510-293-1500	510-293-1505
Seattle	18609 72nd Avenue South, Kent, WA 98032-1082	425-251-0312 844-483-4243	425-251-0369 844-303-1784
Tennessee	221 Blanton Avenue, Nashville, TN 37210	615-248-2667	615-248-2676

INTERNATIONAL LOCATIONS

COUNTRY / REGION	ADDRESS	CONTACT	PHONE	FAX
Australia	Factory 3, 205 Abbotts Road, Dandenong, South Victoria 3175	Peter Pratis	+61 3 8787 5888	+61 3 8787 5899
Canada	6275 Millcreek Drive, Mississauga, Ontario L5N 7K6	Joe Dillio	1-800-567-7188	1-800-265-9680
China	8/F, Lujiazui Fund Tower, No. 101, Zhu Lin Road, PuDong District, Shanghai, China 200122	Tina Ge	+86-21-6162-1858*2234	+86-21-5080-5101
Europe	Westrak 208, 1771 SV Wieringerwerf, Netherlands	Colin Earl	+31 888 769 377	+31 227 594 759
Manitoba	1810 Dublin Avenue Man. Winnipeg, R3H 0H3	Distributor	204-633-0064	204-694-1261
New Zealand	PO Box 302 076 North Harbour Auckland	Clay Sesto	+64 9415 2425	+64 9415 2627
Quebec	721 Meloche Avenue, Dorval, Quebec H9P 2S5	Allan Hill	514-631-4216	514-631-2583

LATIN & CARIBBEAN DISTRIBUTION INQUIRIES

COUNTRY / REGION	ADDRESS	CONTACT	PHONE	FAX
Latin America		Allan Herbert	0050767477749	877-871-1965

LATIN & CARIBBEAN DISTRIBUTION

COUNTRY / REGION	ADDRESS	CONTACT	PHONE	FAX
Brazil	HARD, Rua Dr. Humberto Pinheiro Viera, 150 Lote B, 1 B Distrito Industrial, Joinville, Brazil		55-47-40097209	55-47-40097217
Colombia	Electrogeno, S.A., Carrera 52 #71c-38, Bogota, Colombia		(57) 1 6600 9436	
Costa Rica	Tecnofijaciones de Costa Rica., La Uruca, costado Este del Banco Nacional, Condominio Horizontal JW, Bodega #21, San Jose, Costa Rica	alguerak@tecnofijacionescr.com	00-506-2256-8115/8117	00-506-2256-8149
	Cel Internacional s.a., Alajuela, Costa Rica, Apartado 674-4050	ventas@celcr.com	00-506-2432 5868	00-506-2440-1839
Dominican Republic	Calle Estancia Nueva #17 E Esquina Cul-De-Sac 9, San Geronimo, Santo Domingo	Rodfor Team	809-224-5615	809-472-8640
Ecuador	Acero Comercial Ecuatoriano S.A., Av. La Prensa N45-14 y Telégrafo 1 – Quito Av. Juan Tanca Marengo Km. 1.7 – Guayaquil	info@acero.com info@acero.com	(593-2) 2454 333 (593-4) 2683 060	(593-2) 2454 455 (593-4) 2683 059
Guatemala	Multimateriales s.a., 1 calle, #33-88, Zona 1, Colonia Toledo, Guatemala 01011	info@multimateriales.com	00-502-2429-6700	00-502-2429-6767
Mexico	Multiaccesorios, Av.A tiempo, #502, Parque, Nuevo Leon	jnlazo@multiaccesorios.com	00-52-81-8042-4200	00-52-81-1231-0048
	Fulminantes Industriales, Encino No.1103, Col Granjas, Chihuahua	irmafp@live.com	00-52-614-419-0090	00-52-614-419-8523
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