

ALLFASTENERS



Allfasteners.com/adhesive-anchoring.html



EFSOO

HIGH PERFORMING STRUCTURAL ADHESIVE INJECTION SYSTEM

EF600 High Performance Structural Pure Epoxy is a

two-part component 100% epoxy based chemical anchoring system. It's designed for the most demanding structural applications and rebar connections.

EF600 can be used in dry, wet and submerged applications making it great for just about any application. Due to its high load-bearing capacity and longer working times, EF600 is ideal for deep embedment, large diameter holes and high ambient temperatures.

BENEFITS & SPECIFICATIONS

- For Cracked & Uncracked Concrete
- Use with Core Drilled Holes
- Suitable for Dry, Wet or Flooded Holes
- Fast Cure Times
- · Rated for Seismic Loads A-F
- Leed Compliant
- · Made in the USA

WORKING TIMES*

Base Material Temp °F (°C)	110°F (43°C)	75°F (24°C)	43°F (6°C)
Working Time	3 mins	16 mins	45 mins
Cure Time	2 hrs	7 hrs	144 hrs

*Condition (warm) cartridge to 40°F (4°C) - 95°F (35°C) for installation below 70°F (21°C). Storage: between 40°F (4°C) to 95°F (35°C).

APPLICATIONS

- For Use with Multiple Anchor Types: Threaded Rod, Rebar & Internally Threaded Inserts
- Application: For Use with Rebar and Threaded Rod Fastening to Concrete
- Compatible with Allfasteners' AFOS Design Software





CRACKED CONCRETE



SEISMIC A-F



CORE DRILLED HOLES



UNCRACKED CONCRETE



FAST CURE



DRY, WET, FLOODED







ALLFASTENERS' APPROVALS











ICC ESR 4732

NJ DOT

NY STATE DOT

LEED Compliant

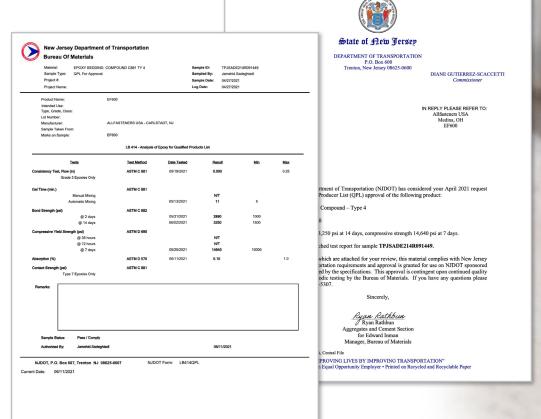


International Residential Code (IRC)



International Building Code (IBC)

Allfasteners proudly stands by their products, especially our Adhesive Anchoring Systems. **EF600** is not only one of our best chemical anchor to date, but also boasts some of our most prestigious approvals. These include, ICC-ES approvals, LEED compliancy, IRC and IBC compliancy and **now DOT approvals** for several locations.





EF600



Get All The **ACCESSORIES**







1:1 EPOXY APPLICATOR GUN 200Z/600ML NYLON SCREEN TUBE

Part #	Size	Qty
13CAG600	20oz Applicator Gun	1

Part #	Size	Qty
1HBP	Multiple Sizes Available	1

HOLE CLEARING HAND PUMP

Part #	Qty
1BPUMP	1







NYLON BRISTLE HOLE CLEARING BRUSH

Part #	Size	Qty
11B012	1/2" Brush	1

ENDURO SDS-PLUS 4 CUTTER BITS

Part #	Size	Qty
5DSPE	Multiple Sizes Available	1

EPOXY	INJECT	ION	MIXING	NOZZLE

Part #	Qty
1SN10	1

See more accessories on pages 8 through 11.

A Full System for **ALL APPLICATIONS**

EF600 can be used in most substrates that require a high strength adhesive anchor including:

- Concrete
- Brick
- Cinder Block
- Masonry

Allfasteners also has the Epoxy Calculator to estimate the required number of cartridges needed for standard threaded stud sizes with EF600.

Check out Allfasteners Epoxy Calculator on allfasteners.com



ALLFASTENERS' COMPARISON



	ALL FASTENERS °		DEWALT	SIMPSON Strong-Tie
	EF600 ESR-4732	RE 500 V3 ESR-4094	PURE110+ ESR-3298	SET-XP ESR-2508
BUILDING CODE COMPLIANT (IBC/IRC)	√	√	√	√
MADE IN THE USA	√	X	X	✓
WITHSTAND TEMPERATURES > 200°F		X	X	X
CORE-DRILLED HOLES (SD)		√	X	X
NSF/ANSI 61 & 372 DRINKING WATER & LEAD FREE	√	X	X	X
THREADED ROD, REBAR & INTERNALLY THREADED INSERTS	√	√	X	X
NO HOLE CLEANING W/VACUUM DRILL BITS	√	√	√	✓
TESTED FOR USE WITH BATTERY DISPENSING TOOLS	√	√	√	✓
FULL CURE @ 75°F IN 7 HOURS OR LESS	√	√	X	X
UNCRACKED BOND STRENGTH (AVG), 176+ SHORT TERM TEMP, NO SUSTAINED LOAD (PSI)	1,925	1,460	1,190	N/A*
CRACKED BOND STRENGTH (AVG), 176+ SHORT TERM TEMP, NO SUSTAINED LOAD (PSI)	1,170	855	880	N/A*

^{*}Simpson SET-XP limited to a maximum short-term temperature of 150°F and therefore is not applicable for this comparison to products which can be designed to higher temperatures.

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VF200PRC

FAST CURE ANCHORING ADHESIVE INJECTION SYSTEM

VF200PRO is a two-part, high strength, styrene-free, vinylester adhesive anchoring system tested for use with threaded rod and reinforcing bar for cracked and uncracked concrete conditions in accordance with ACI 355.4 and ICC-ES AC308

Designed to anchor threaded rods & rebar in concrete for very high loads and critical fastenings. Features a high chemical resistance useful in corrosive environments (ACI 355.4), critical and overhead fixings. It can also be used in dry concrete or water-saturated concrete.

BENEFITS & SPECIFICATIONS

- ICC-ES ESR-4632 for use in cracked and uncracked normal weight and lightweight concrete
- Resists static, wind and earthquake loading in tension and shear -(IBC Seismic Design Categories A through F)
- Full cure in 45 minutes at 70 °F (21 °C)
- Certified Drinking Water System Components (NSF/ANSI 61) Joining and Sealing
- Resists sustained loads up to 161 °F (72 °C)
- Withstands freeze-thaw conditions

SPECIFICATION

Anchoring adhesive shall be a two component, 10:1 ratio by volume, vinylester anchoring system supplied in pre-measured cartridges. Adhesive must meet the requirements of ICC-ES AC308, ACI 355.4 and ASTM C881-15 specification for Type I, II, IV, and V, Grade 3 Class A, B & C.

Adhesive must have a heat deflection temperature of 192 °F (89 °C) per ASTM D648 and have a compressive yield strength of 11,430 psi (78.8 MPa) at 75 °F (24 °C) after a 7 day cure per ASTM D695. Adhesive shall be VF200PRO from Allfasteners USA, LLC., Medina, Ohio.

Anchors shall be installed per the Manufacturer's Printed Installation Instructions (MPII) for VF200PRO anchoring system.





CRACKED CONCRETE



SEISMIC A-F



CORE DRILLED HOLES



UNCRACKED CONCRETE



FAST CURE



DRY, WET, FLOODED

WORKING TIMES*

Concrete Temp °F (°C)	Working Time	Full Cure Time
14 (-10)	90 min	24 hr
23 (-5)	90 min	14 hr
32 (0)	45 min	7 hr
41 (5)	25 min	2 hr
50 (10)	15 min	90 min
70 (21)	6 min	45 min
86 (30)	4 min	25 min
95 (35)	2 min	20 min
104 (40)	1.5 min	15 min

For installation between 14°F and 23°F (-10°C and -5°C) the cartridge temperature must be conditioned to between 70°f and 75°F (21°C and 24°C).

^{2.} Store adhesive in dry cool location free from sun and rain.

^{3.} Storage temperature is 41°F to 77°F (5°C to 25°C).

ALLFASTENERS' APPROVALS







ICC ESR 4732

I DOT

LEED Compliant



International Residential Code (IRC)



International Building Code (IBC)

STANDARDS & APPROVALS

- ICC ESR 4632
- Illinois DOT Approved
- Certified NSF/ANSI 61
- International Building Code (IBC)
- International Residential Code (IRC)
- ASTM C881 Type I, II, IV, V Grade 3; Class A, B, C, AASHTO M325
- USDA Compliant
- LEED Compliant

Allfasteners proudly stands by their products, especially our Adhesive Anchoring Systems. VF200PRO is not only one of our best chemical anchor to date, but also boasts some of our most prestigious approvals. These include, ICC-ES approvals, LEED compliancy, IRC and IBC compliancy and now DOT approvals for several locations.





Get All The ACCESSORIES

ALLFASTENERS not only has the adhesive anchors for any application, but we also have the accessories needed to complete the task as well. From epoxy dispensers to threaded rod, our range of adhesive anchoring accessories is compiled with everything you will need.

Dispensing Accessories

Caulking Applicator Gun 10oz/300ml

PART NO.	SIZE	*	•
13CAG300	Applicator Gun - 10 oz., Caulk 18:1 Ratio	1	12



1:1 Epoxy Applicator Gun 20oz/600ml

PART NO.	SIZE	*	*
13CAG600	Applicator Gun - 10 oz., Caulk 18:1 Ratio	1	5



ChemPower Battery Operated Applicator Gun

PART NO.	DESCRIPTION	*
9CCG300	ChemPower Battery Operated Applicator Gun	1



Plastic Extension Tubing

PART NO.	DESCRIPTION	\$	•
1E25-6	6 ft Plastic Tubing	1	6



Epoxu Injection Mixing Nozzle

PART NO.	DESCRIPTION	*
1SN10	VF200PRO Mixing Nozzle	25





ALLFASTENERS' ACCESSORIES



Hole Clearing Accessories

Nylon Bristle Hole Clearing Brush

PART NO.	BRUSH SIZE	DRILL SIZE	*
11B012	1/2	3/8 or 1/2	1

Wire Hole Clearing Brush

PART NO.	BRUSH SIZE	DRILL SIZE	\$
11SB038	7/16	3/8	1
11SB012	9/16	1/2	1
11SB058	11/16	5/8	1
11SB034	13/16	3/4	1



PART NO.	DESCRIPTION	\$
1BPUMP	Blow pump for epoxy installation	1





Insert Accessories

Hollow Block Umbrella Insert

PART NO.	DESCRIPTION	\$	*
1HBU-38	Umbrella Insert for 1/4, 3/8 and 1/2 Rod	20	200



Nylon Screen Tube with Hole Plug

PART NO.	SCREEN SIZE	ROD SIZE	DRILL SIZE	\$	•
1NST1250	M12 x 1-5/16	1/4 & 5/16	1/2	25	250
1NST1280	M12 x 3-1/8	1/4 & 5/16	1/2	25	125
1NST1685	M16 x 3-3/8	3/8 & 1/2	5/8	12	96
1NST16130	M16 x 5-1/8	3/8 & 1/2	5/8	12	60
1NST2085	M20 x 3-3/8	1/2 & 5/8	3/4	10	50



ALLFASTENERS' ACCESSORIES

Threaded Accessories

Adhesive Anchor Rod Assembly - Zinc Plated

PART NO.	SIZE	\$	•
1SCMZ38418	3/8-16 x 4-1/8	25	250
1SCMZ38518	3/8-16 x 5-1/8	25	200
1SCMZ38638	3/8-16 x 6-3/8	25	125
1SCMZ12612	1/2-13 x 6-1/2	20	100
1SCMZ58712	5/8-11 x 7-1/2	10	40
1SCMZ3410	3/4-10 x 10	5	20

Adhesive Anchor Rod Assembly - Hot Dip Galvanized

PART NO.	SIZE	\$	*
1SCMG38418	3/8-16 x 4-1/8	25	250
1SCMG38518	3/8-16 x 5-1/8	25	200
1SCMG38638	3/8-16 x 6-3/8	25	125
1SCMG12612	1/2-13 x 6-1/2	20	100
1SCMG58712	5/8-11 x 7-1/2	10	40
1SCMG3410	3/4-10 x 10	5	20

Adhesive Anchor Rod Assembly - 316 Stainless Steel

PART NO.	SIZE	\$	*
1SCMS438418	3/8-16 x 4-1/8	25	250
1SCMS438518	3/8-16 x 5-1/8	25	200
1SCMS438638	3/8-16 x 6-3/8	25	125
1SCMS412612	1/2-13 x 6-1/2	20	100
1SCMS458712	5/8-11 x 7-1/2	10	40
1SCMS43410	3/4-10 x 10	5	20





Drilling Accessories

Enduro SDS-Plus 4 Cutter Bits

PART NO.	SIZE	USABLE LENGTH (IN)	\$	**
5DSPE-532-6	5/32 X 6-3/8	4-3/8	1	10
5DSPE-14-4	1/4 X 4-3/4	2-3/4	1	10
5DSPE-14-6	1/4 X 6-3/4	4-3/4	1	10
5DSPE-14-8	1/4 X 8-3/4	6-3/4	1	10
5DSPE-14-12	1/4 X 12-3/4	10-3/4	1	10
5DSPE-316-4	3/16 X 4-3/4	2-3/4	1	10
5DSPE-316-6	3/16 X 6-3/4	4-3/4	1	10
5DSPE-316-8	3/16 X 8-3/4	6-3/4	1	10
5DSPE-316-12	3/16 X 12-3/4	10-3/4	1	10
5DSPE-12-6	1/2 X 6-3/4	4-3/4	1	10
5DSPE-12-8	1/2 X 8-3/4	6-3/4	1	10
5DSPE-12-12	1/2 X 12-3/4	10-3/4	1	10



*More Sizes Available

Dustless SDS-Plus Multi-Cutter Carbide Drill Bit with Vacuum Attachment

PART NO.	SIZE	USABLE LENGTH (IN)	\$
5SPDL-12-16	1/2 x 10	16	1
5SPDL-916-16	9/16 x 10	16	1
5SPDL-58-16	5/8 x 10	16	1
5SPDL-34-16	3/4 x 10	16	1



Dustless SDS-MAX Multi-Cutter Carbide Drill Bit with Vacuum Attachment

PART NO.	SIZE	USABLE LENGTH (IN)	\$
5XDL-12-24	1/2 x 16	24	1
5XDL-916-24	9/16 x 16	24	1
5XDL-58-24	5/8 x 16	24	1
5XDL-34-24	3/4 x 16	24	1
5XDL-78-24	7/8 x 16	24	1
5XDL-1-24	1 x 16	24	1
5XDL-118-24	1-1/8 x 16	24	1
5XDL-114-24	1-1/4 x 16	24	1
5XDL-138-24	1-3/8 x 16	24	1



DeWalt® 10 Gallon Wet/Dry HEPA/RRP Dust Extractor

PART NO.	SIZE	USE WITH	\$
9DWV012	10 Gallon Wet/Dry Vacuum	Dustless Drill Bits	1







Locations Nationwide: 888.859.6060



Online Ordering 24/7 at Allfasteners.com