

Fastfix-it Enterprise Co., Ltd.

No. 47-1, Lane 199, Rexin Road, Renwu District, Kaohsiung City 81460, TAIWAN

Tel: 886-7-3756058 Fax: 886-7-3756091

TECHNICAL DATA

FX E400
Injection
Anchor

Product Name: Injection Cartridge (Pure epoxy resin)

Product Code: FX-E400

Manufacturer: Fastfix-it Enterprise Co., Ltd.

No. 47-1, Lane 199, Rexin Road, Renwu District,

Kaohsiung City 81460, TAIWAN

Telephone/Fax: 886-7-3756058 / 886-7-3756091

Website: <u>www.fastfix-it.com</u>

Product Description: Solvent-free, epoxy resin based, two part high performance anchoring adhesive.

Uses: For the fixing of non-expanding anchors in the following:

■ For structural work:

- ✓ Rebar / steel reinforcement anchoring in new and refurbishment works.
- √ Threaded rods
- ✓ Bolts and special fastening systems
- Mechanical and electrical services installation
 - ✓ Anchoring of supports for ducting and equipment.
- Metal Work, carpentry
 - ✓ Fixing of handrails, balustrades and supports
 - √ Fixing of railings
 - ✓ Fixing of window and door frames

For fixing of the following substrates:

- ✓ Concrete
- ✓ Hard natural and reconstituted stone
- ✓ Solid rock
- ✓ Hollow and solid masonry
- √ Steel
- ✓ Wood

Advantages: ✓ Non-cracked concrete

- ✓ Can use in damp area
- √ High load capacity
- ✓ Non-sag, even overhead
- √ Styrene-free
- √ Low odour
- ✓ Non contraction after harden
- √ High stability
- ✓ No transportation restrictions

Test Report:



Test Item	Test Method	Test Result
Density (g/cm ³)	ASTM D792-00 Method A	1.6
Gel Time (min.)	ASTM D2471-99	20
Bond Strength (psi)	ASTM C882-99	1495
Water Absorption (%)		
a. 100℃ / 1hr	ASTM D570-98	0.142
b. 50°ℂ / 1hr		0.092
Compressive Strength (psi	ASTM D695-02a	12215
Tensile Strength (psi)	ASTM D638-03	5810
Elongation at Break (%)	ASTIVI D038-03	4.7

Press	sure	Destroy Haul Strength (kgf)	Safety Haul Strength (kgf)	Working Sta	andard (mm)
Concrete	Strength	4000 psi	4000 psi	Hole Diameter	Hole Depth
	#3 (Ф10)	3600	1646	13	90
	#4 (Ф13)	5760	2879	16	115
Stool Strip No	#5 (Ф16)	15080	4570	20	125
Steel Strip No.	#6 (Ф19)	22920	6708	25	160
	#8 (Ф25)	29586	10749	32	215
	#10 (Ф32)	34431	15046	40	300

^{***} For information only - not for specification purposes. ***

Product Data:

Colours: Part A: White

Part B: Black / Red Mixed: Gray / Pink

Mix ratio: 03:01

Packaging: 20 cartridges per carton, each cartridge with 1 mixer nozzle.

Pallet: 60 cartons with 20 cartridges

Order information:

Size:	400ml
Part #	FX-E400
Dispensing Tool:	FX-GUN400
Case Qty:	20
Pallet Qty:	1200

Storage condition &

Shelf-Life:

24 months from date of production if stored properly in original unopened, sealed and undamaged packaging in cool and dry conditions at temperatures between +5°C and

+25°C. Protect from direct sunlight.

All FX-E400 cartridges have the expiry date printed on the label.

Technical Data:

Density: Part A: 1.70 kg/l (±0.5kg)

Part B: 1.30 kg/l (±0.5kg)

1.68 kg/l (part A+B mixed) (±0.5kg)

Gel and loading times:

Application Temperature (°C)	Gel Time (min.)	Loading Time (hr.)
40	4	3
30	7	5
20	15	7
10	60	12

Sag Flow: Non-sag, even overhead, but need to use wedges to fix rebars before curing.

One rebar need two wedges to fix in symmetrical angle.

Layer Thickness: 5 mm max.

Application Conditions / Limitations

Substrate Temperature: +10°C min. / +45°C max. Ambient Temperature: +10°C min. / +45°C max.

Material Temperature: Must be at a temperature of between +10°C and +40°C for application.

Dew Point: Beware of condensation!

Substrate temperature during application must be at least 10°C above dew point.

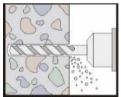
Application Instructions:

Mixing: Part A : part B = 3 : 1 by volume

Maximum embedment depth: 800 mm

Application Method:

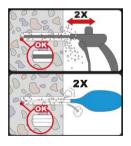
1. Bore hole drilling



Drilling of hole with an electric drill to the diameter and depth required by the selected reinforcing bar. Drill hole diameter must be in accordance with anchor size.

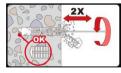
Rebar - Ø	Drill - Ø
8 mm	12 mm
10 mm	14 mm
12 mm	16 mm
14 mm	18 mm
16 mm	20 mm
20 mm	25 mm
25 mm	30 mm
28 mm	35 mm
32 mm	40 mm
36 mm	45 mm
40 mm	55 mm

2. Bore hole cleaning

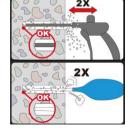


Start from the bottom or back of the bore hole, blow the hole clean with compressed air (min. 30 seconds) or a hand pump a minimum of two times. If the bore hole ground is not reached an extension shall be used.

For bore holes deeper than 200 mm, or bore hole diameter bigger (\geq) than 35 mm, compressed air (min. 30 seconds) must be used.



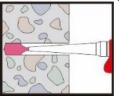
Brush the hole with an appropreate sized wire brush a minimum of two times. If the bore hole ground is not reached with the brush, a brush extension shall be used. The diameter of wire brush is equal to the hole diameter.



Finally blow the hole clean again with compressed air (min. 30 seconds) or a hand pump a minimum of two times. If the bore hole ground is not reached an extension shall be used.

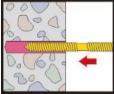
For bore holes deeper than 200 mm, or bore hole diameter bigger (\geq) than 35 mm, compressed air (min. 30 seconds) must be used.

3. Bore hole filling



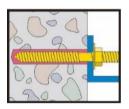
Prior to dispensing into the anchor hole, squeeze out separately the mortar until it shows a consistent grey colour, and discard non-uniformly mixed adhesive components. Start from the bottom or back of the cleaned anchor hole fill the hole up to approximately two-thirds with adhesive. Slowly withdraw the static mixing nozzle as the hole fills to avoid creating air pockets.

4. Rebar/anchor inserting



Insert the anchor with a rotary motion into the filled drill hole. Some adhesive must come out of the hole.

**Important: the anchor must be placed within the open time.



During the resin hardening time the anchor must not be moved or loaded.

Health and Safety Information:

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

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