TECHNICAL DATA SHEET

EPOXY ACRYLATE FX-V360

FAST CURED EPOXY ANCHOR

FX-V360 is solvent-free, epoxy acrylate based, two component anchoring adhesive.

➢ PRODUCE NAME：	Injection Cartridge (Pure epoxy resin)
➢ PRODUCT CODE：	FX-V360
➢ SIZE：	360ML
➢ RATIO：	10:1
➢ COLOR：	PART A-White PART B-Black / Red MIXED- Gray/Pink

USES

As a fast curing anchoring adhesive for all grades of:

- ✓ Rebars / reinforcing steel
- ✓ Threaded rods
- ✓ Concrete
- ✓ Hollow and solid masonry
- ✓ Steel

Prior to any application, the suitability of the FastFix-it Adhesive for the substrate in terms of the desired bond strength, and for the prevention of surface staining or discolouration, must be confirmed by testing in a sample area. This is due to the wide variation of possible substrates, particularly in terms of strength, composition and porosity:

- ✓ Hard natural stone
- ✓ Solid rock

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ADVANTAGES

- ☑ Fast curing
- ☑ High load capacity
- ☑ Non-sag, even overhead
- ☑ Styrene-free
- ☑ Low odor
- ☑ Low wastage
- ☑ No transportation restrictions

TECHNICAL DATA

Specimen No.	Design Load (kgf)	Max. Loads (kgf)	Test Material	Result
D10	673	2442	SD 280W	D
D13	1126	3424	SD 280W	D
D16	1606	5756	SD 280W	D
D19	2037	7997	SD 420W	B

*** Remark: A-reinforced bar fracture, B-reinforce bar pull-out, C-Concrete fracture, D-No damage (A+B+C not occur).
Above test results are refer to SGS test report no. "KK-17-11580A" ***

DENSITY

- Part A: 1.52 - 1.60 kg/l
- Part B: 1.32 - 1.38 kg/l
- 1.50 - 1.58 kg/l (part A+B mixed)

LAYER THICKNESS

- 5 mm max.

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.

GEL AND LOADING TIMES

Application Temperature (℃)	Gel Time (min.)	Loading Time (min.)
35	2	20
30	3	30
20	5	60
5	15	120
0	30	180
-5	60	360

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APPLICATION CONDITIONS / LIMITATIONS

SUBSTRATE & AMBIENT TEMPERATURE

- -5°C min. / +35°C max..

MATERIAL TEMPERATURE

- Must be at a temperature of between +5°C and +20°C for application.

DEW POINT

- Beware of condensation!
  Substrate temperature during application must be at least 3°C above dew point.

STORAGE CONDITION & SHELF-LIFE

- 12 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 +20°C.
- Protect from direct sunlight.

All FX-V360 cartridges have the manufacture date printed on the label.

ORDER INFORMATION

SIZE：	360ml
PART#：	FX-V360
CASE QTY：	20 PCS/ CARTON
PALLET QTY：	60 CTNS/ PALLET
DISPENSING TOOL：	FX-GUN345S

APPLICATION INSTRUCTIONS

- MIXING： Part A : Part B = 10 : 1 by volume

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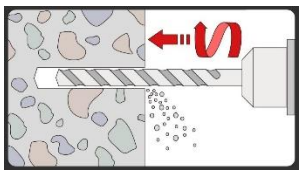
INSTALLATION STANDARD

Anchor Size	Drill - Ø(mm)	Embedment Depth (mm)	Base Material Thickness	Anchor Spacing (mm)
M8	10	80	110	160
M10	12	90	120	180
M12	14	110	140	220
M16	18	125	160	250
M20	24	170	220	340
M24	28	210	270	420
M30	35	280	340	560

Rebar Size	Drill - Ø(mm)	Embedment Depth (mm)	Base Material Thickness	Anchor Spacing (mm)
T10	13	90	120	180
T13	16	110	150	220
T16	20	125	170	250
T20	25	170	220	340
T25	30	210	270	420
T28	35	270	340	540
T32	40	300	380	600
T40	50	400	500	800

APPLICATION METHOD

STEP1. 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.
  In case of aborted drill hole: the drill hole shall be filled with mortar.

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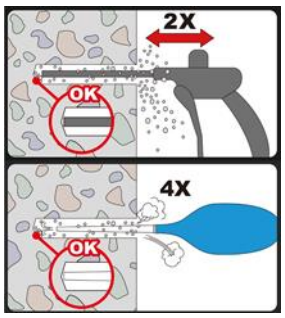
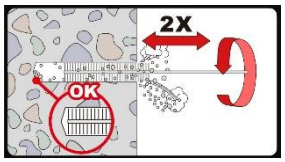
Rebar - ⌀	Drill - Ø	Nylon Brush - Ø	Steel Brush - Ø
8 mm	12 mm	14 mm	12.5 mm
10 mm	14 mm	16 mm	14.5 mm
12 mm	16 mm	18 mm	16.5 mm
14 mm	18 mm	20 mm	18.5 mm
16 mm	20 mm	22 mm	20.5 mm
20 mm	25 mm	27 mm	25.5 mm
25 mm	30 mm	34 mm	30.5 mm
28 mm	35 mm	39 mm	35.5 mm
32 mm	40 mm	45 mm	40.5 mm

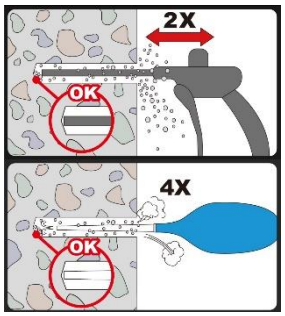
STEP2. BORE HOLE CLEANING



- 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 (≧) than 35 mm, compressed air (min. 30 seconds) must be used.



- Brush the hole with an appropriate 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 (≧) than 35 mm, compressed air (min. 30 seconds) must be used.

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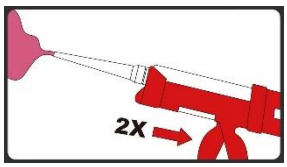
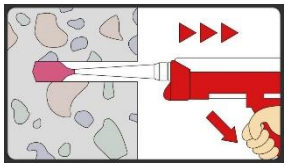
STEP3. BORE HOLE FILLING

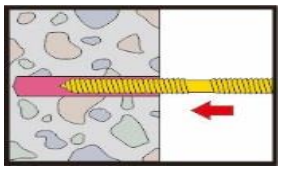


- Prior to dispensing into the anchor hole, squeeze out separately the mortar until it shows a consistent grey color, and discard non-uniformly mixed adhesive components.



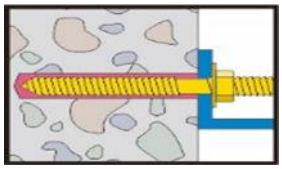
- Start from the bottom or back of the cleaned anchor hole fill the hole up to approximately two-thirds with adhesive. Slowly withdraw the static mixing nozzle as the hole fills to avoid creating air pockets.
- For overhead and horizontal installation and bore holes deeper than 200 mm a piston plug and the appropriate mixer extension must be used.

STEP4. REBAR / ANCHOR INSERTING



- Push the reinforcing bar into the anchor hole while turning slightly to ensure positive distribution of the adhesive until the embedment depth is reached.
- The rebar should be free of dirt, grease, oil or other foreign material.

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



- Be sure that the rebar is inserted in the bore hole until the embedment mark is at the concrete surface and that excess mortar is visible at the top of the hole. If these requirements are not maintained, the application has to be renewed.
- During the resin hardening time the anchor must not be moved or loaded.

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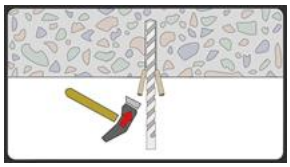
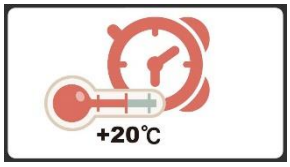


- For overhead installation, it must fix with wedges at embedded part.



- Observe gelling time. Attend that the gelling time can vary according to the base material temperature (see curing time table). It is not allowed to move the rebar after gelling time has elapsed.
- Allow the adhesive to cure to the specified time prior to applying any load. Do not move or load the rebar until it is fully cured (attend curing time table). After full curing time has elapsed, the add-on part can be installed.

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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