

# FISFIX 360

**HIGH-PERFORMANCE ANCHORING EPOXY  
FOR POST-INSTALLED REBAR & THREADED ROD CONNECTIONS**

**80 MPa**

COMPRESSIVE STRENGTH

**5 : 1**

MIX RATIO (BY VOLUME)

**-40 / +50 °C**

SERVICE TEMPERATURE

**360 mL**

CARTRIDGE VOLUME

## DESCRIPTION

FISFIX 360 is a two-component, high-performance epoxy-based chemical anchoring adhesive supplied in a 360 mL side-by-side cartridge with integrated static mixer. Designed for post-installed rebar connections, threaded rod anchoring, and structural dowelling in concrete, masonry, and natural stone substrates. The thixotropic formulation (index  $\geq 4.2$ ) allows overhead and horizontal installation without drip.

## INTENDED USES

- Anchoring of all grades of rebars and threaded rods in concrete, masonry, natural stone, and solid or hollow bricks and blocks
- Grouting horizontally and vertically where rapid setting and fast turnaround times are needed
- Applications in cooler temperatures and inclement conditions, including  $-10\text{ °C}$  and wet substrates
- External environments subject to dynamic loads and vibrations
- Anchoring structural steel to concrete — safety barriers, canopies, signs, handrails, racking, machinery, masonry supports, stadium seats, reinforcing and starter bars

## CHARACTERISTICS

- High compressive strength (80 MPa) — reliable load transfer for structural anchorages
- Thixotropic consistency (index  $\geq 4.2$ ) — non-sag, may be applied overhead
- 5 : 1 mix ratio by volume — dispensed and mixed automatically via static mixing nozzle
- Suitable for cracked and uncracked concrete
- Styrene-free, VOC-compliant and low odour
- Sets up in dry or damp drill holes
- Reduced edge and spacing values allowing critical applications
- Flexible embedment depths from 8d to 12d
- Resistant to a wide range of chemicals

## TECHNICAL PROPERTIES

PROPERTY	VALUE
PROCESSING	
Packaging	360 mL side-by-side cartridge, 20 per case
Mix Ratio (A : B)	5 : 1 (by volume)
Colour (mixed)	Grey / Pink
Service Temperature	$-40 / +50\text{ °C}$

PROPERTY	VALUE
Shelf Life	12 months (unopened, +5 to +25 °C)
Viscosity (mixed)	15 Pa·s
Density (cured)	1.6 g/cm <sup>3</sup>
<b>MECHANICAL (CURED)</b>	
Compressive Strength	≥ 80 MPa
Splitting Tensile Strength	≥ 20 MPa
Tensile Modulus	≥ 3,500 MPa
Elongation at Break	≥ 0.3 %
Flexural Strength	≥ 55 MPa
Thixotropy Index	≥ 4.2
Sagging Mobility (25 °C)	≤ 1.4 mm
Heat Distortion Temperature	≥ 66 °C
<b>BOND &amp; SHEAR</b>	
Steel-to-Steel Tensile Shear	≥ 16 MPa
Bond to C30 Concrete (Φ25, L=150 mm)	≥ 11 MPa
Bond to C60 Concrete (Φ25, L=125 mm)	≥ 18 MPa
Steel-to-Steel T-Peel Stripping	≤ 25 mm
Non-volatile Content	≥ 99.5 %

### WORKING TIME & CURE TIME

SEASON (TEMPERATURE)	WORKING TIME	FULL CURE
Winter (10 °C)	40–120 min	48 h
Spring & Autumn (23 °C)	40 min	12 h
Summer (30 °C)	30 min	6 h

Working time = open time before gel. Full cure = minimum time before loading. Times are approximate and assume dry drill hole. Double cure time for water-saturated holes.

### LOAD CAPACITY — GRADE 40/60 REBAR (C30 CONCRETE, UNCRACKED)

BAR Ø (MM)	HOLE Ø (MM)	MIN DEPTH (MM)	EPOXY (ML)	GRADE 40 (KN)	GRADE 60 (KN)
8	12	≥100	7.5	14.1	20.8
10	14	≥100	10.3	22.0	32.6
12	15	≥120	14.1	31.7	46.9
16	20	≥160	33.5	56.3	83.4

BAR Ø (MM)	HOLE Ø (MM)	MIN DEPTH (MM)	EPOXY (ML)	GRADE 40 (KN)	GRADE 60 (KN)
20	25	≥200	65.4	87.9	130.3
25	32	≥250	134.0	137.4	203.6
28	35	≥280	179.5	172.3	255.4
32	40	≥320	267.9	225.1	333.6

Grade 40 = 280 MPa yield. Grade 60 = 415 MPa yield. Values at rebar yield — no safety factor applied.

### LOAD CAPACITY — THREADED ROD (C30 CONCRETE, UNCRACKED)

ROD Ø (MM)	HOLE Ø (MM)	MIN DEPTH (MM)	EPOXY (ML)	GRADE 5.8 (KN)	GRADE 8.8 (KN)
8	12	≥100	7.5	20.1	32.2
10	14	≥100	10.3	31.4	50.2
12	14	≥120	12.3	45.2	72.3
16	18	≥160	27.1	80.4	128.6
20	24	≥200	60.3	125.6	201.0
22	25	≥220	72.0	152.0	243.2
24	28	≥240	98.5	180.9	289.4
27	30	≥270	127.2	228.9	366.2
30	35	≥300	192.3	282.6	452.2
36	42	≥360	332.3	406.9	651.1
39	45	≥390	413.3	477.6	764.2

Grade 5.8 = 400 MPa yield. Grade 8.8 = 640 MPa yield. Epoxy usage based on 2/3 drill hole volume.

### INSTALLATION PROCEDURE

#### Step 1 — Drill Hole

- Drill hole to specified diameter and depth using rotary percussion drill and carbide-tipped bit.

#### Step 2 — Clean Hole

- Blow out debris with compressed air (≥ 6 bar, oil/water-free). Brush with steel brush. Repeat blow-brush-blow cycle (minimum 2 cycles).

#### Step 3 — Prepare Cartridge

- Attach static mixing nozzle. Dispense and discard initial material until uniform colour (no streaking) is achieved.

#### Step 4 — Fill Hole

- Insert nozzle to back of hole. Fill from bottom up to approximately ½ to ¾ full. Withdraw nozzle steadily.

#### Step 5 — Insert Anchor

- Insert rebar or threaded rod (clean, oil-free) with slow rotating motion. Excess resin should be expelled evenly. Remove excess before it sets.

#### Step 6 — Curing

- Do not disturb anchor during curing period. Tighten nut to recommended torque — do not overtighten.

## CLEAN UP

Collect with absorbent material. Dispose of in accordance with local regulations. Uncured material can be removed with epoxy cleaner. Cured material can only be removed mechanically.

## LIMITATIONS

- FISFIX 360 is not intended as a cosmetic or decorative material; staining may occur on porous substrates.
- Pre-condition material to above 10 °C for easier dispensing with manual equipment.
- Minimum concrete age: 28 days (depending on curing conditions).
- Do not thin with solvents — solvents will prevent proper cure.
- FISFIX 360 must only be applied on or into substrates when they are frost-free.

## STORAGE

Store in original sealed cartridge at +5 °C to +25 °C. Protect from direct sunlight. Shelf life 12 months from date of manufacture. Pre-condition to 23 °C for easier dispensing.

## COMPATIBLE SYSTEM PRODUCTS

CODE	FUNCTION	NOTES
<b>FISFIX 390</b>	Chemical anchoring epoxy	3 : 1 mix, 90 MPa compressive, 390 mL
<b>FISFIX 450</b>	Heavy-duty anchoring epoxy	2 : 1 mix, 100 MPa compressive, 450 mL
<b>FISFIX 585</b>	Chemical anchoring epoxy	3 : 1 mix, 90 MPa compressive, 585 mL
<b>FISFIX 650</b>	High-load anchoring epoxy	1 : 1 mix, 110 MPa compressive, 650 mL
<b>FCA 10/450</b>	CFRP anchor	Ø10 × 450 mm for FRP system termination
<b>FX 50</b>	Carbon fiber anchor rope	For FRP U-wrap termination

## HEALTH & SAFETY

### NOTE

Refer to the current Safety Data Sheet (SDS) for handling, storage, and disposal. Wear nitrile gloves, safety goggles, and respiratory protection. Avoid skin contact with uncured resin. This TDS does not replace the SDS.

## LEGAL NOTES

The information and recommendations in this document are given in good faith based on current knowledge and experience of the products when properly stored, handled, and applied under normal conditions. Differences in materials, substrates, and site conditions mean that no warranty in respect of merchantability or fitness for a particular purpose can be inferred from this information. The information does not relieve the user of the responsibility of testing products for their intended application. All orders are accepted subject to our current terms of sale and delivery. Refer to the most recent TDS at [www.fidstrong.com](http://www.fidstrong.com).