

**Product Data Sheet**  
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Identification no. 386-29F  
Sikadur AnchorFix-3

# Sikadur® AnchorFix-3

## Sikadur Injection Gel FS

High modulus, high strength, smooth, epoxy paste anchoring adhesive

**Description** Sikadur AnchorFix-3 is a 2-component, 100% solids, moisture-tolerant, high-modulus, high-strength, structural epoxy. When mixed it gives a smooth, non-abrasive, paste adhesive. It conforms to the current ASTM C-881 and AASHTO M-235 specifications.

**Where to Use**

- Structural crack repairs not exceeding 1/4 in. (6 mm) width.
- Mechanical grouting. . . bolts, dowels, pins, machine and 'robotic' base plates, bearing pads, etc.
- Waterproofing tunnels, cable vaults, tanks, basements, etc.
- Re-anchoring of veneer masonry.
- Wood-truss repairs.
- Preventive maintenance - grout large cracks on new or existing structures to seal off reinforcing steel from the elements of corrosion.
- Anchor grouting . . . bolts, dowels, pins and special fasteners in concrete and masonry.
- As a pick-proof sealant around windows, doors, lock-ups etc. inside correctional facilities.

**Advantages**

- ICC/ICBO ER 6182.
- Faster curing than Sikadur AnchorFix-4.
- Styrene-free.
- Low odor.
- Low waste.
- Side-by-side cartridge can be dispensed with a 1:1 mixing gun; 10.1 fl. oz. cartridge can be dispensed with a standard, good quality caulking gun.
- Moisture tolerant.
- Dynamic loading.

**Packaging** 10.1 fl.oz. (300 ml) caulk gun cartridge, 22 fl. oz. (650 ml) side-by-side cartridge, 55 fl. oz. (1,628 ml) side-by-side cartridge.

**Gel and Curing Times**

Application Temperature	Gel Time	Cure Time
40°F (4°C)	30 min.	36 hrs.
60°F (20°C)	20 min.	24 hrs.
73°F (10°C)	15 min.	24 hrs.
90°F (5°C)	10 min.	15 hrs.

**Caution**

**Warning: Component 'A': IRRITANT, SENSITIZER.** Contains epoxy resins and talc. Eye irritant. May cause skin/respiratory irritation. Prolonged and/or repeated contact with skin may cause allergic reaction/sensitization. Ingestion may adversely affect GI tract. **Warning:** When cured with Component 'B' and sanded, may result in exposure to a chemical known to the State of California to cause cancer.

**Warning: Component 'B': IRRITANT, SENSITIZER.** Contains amines, nonyl phenol and talc. Contact with skin and eyes causes severe irritation and burns. May cause corneal damage or blindness. Eye/skin irritant. Possible skin and respiratory sensitization/allergic reaction with prolonged exposure. May cause respiratory irritation. Harmful if aspirated into lungs. Chronic overexposure to nonyl phenol may cause liver injury. Overexposure can also cause kidney, and/or CNS effects. Harmful if swallowed. Deliberate concentrations of vapors for inhalation purposes may be harmful or fatal. **Warning:** When cured with Component A and sanded, may result in exposure to chemical known to the State of California to cause cancer.

**Components 'A' and 'B'**

**First Aid**

**Eyes:** flush eyes with water for at least 15 minutes. Contact a physician. **Skin:** wash with soap and water. Remove contaminated clothing. **Inhalation:** move person to fresh air. **Ingestion:** do not induce vomiting. Contact a physician. **Contact a physician with all cases if symptoms persist.**

**Handling and Storage**

Avoid contact. Wear protective equipment (chemical resistant gloves/goggles/clothing). Use with adequate general and mechanical exhaust ventilation. In the absence of adequate ventilation, use a properly fitted NIOSH approved respirator. Wash thoroughly after handling product. Remove contaminated clothing and launder before reuse. Exposure to heat builds pressure in closed container. Uncured material can be removed with solvent. Follow solvent manufacturer's warnings and instructions for use. Cured material can only be removed mechanically. Store in cool, dry, well ventilated area away from heat sources. Store at 40°-95°F(4°-35°C). Keep cartridge tightly closed. In case of spill, wear suitable protective equipment (chemical resistant clothing/gloves/goggles). Ventilate area. In the absence of adequate ventilation, use a properly fitted NIOSH respirator. Contain spill and collect with absorbent material and transfer to sealed containers. Dispose of in accordance with applicable local, state and federal regulations.

**Typical Data**

<b>Shelf Life</b>	Best when used within 24 months of manufacturing date.	
<b>Storage Conditions</b>	Store dry at 40°-95°F (4°-35°C). <b>Condition material to 65°-85°F (18°-29°C) before using.</b>	
<b>Color</b>	Components 'A' + 'B' mixed: Uniform gray	
<b>Mixing Ratio</b>	Component 'A' : Component 'B' = 1:1 by volume.	
<b>Consistency</b>	Smooth, non-sag paste.	
<b>Tensile Properties: (ASTM D-638)</b>		
<b>14 day</b>	Tensile Strength	4,700 psi (32.4 MPa)
	Elongation at Break	1.2%
	Modulus of Elasticity	1.2 x 10 <sup>5</sup> psi (828 MPa)
<b>Shear Strength (ASTM D-732)</b>		
<b>1 day</b>	Shear Strength	4,900 psi (33.8 MPa)
<b>Water Absorption (ASTM D-570)</b>		
<b>7 day</b>	(24 hour immersion)	0.17%



Anchor Diameter (in.)	Drill Bit Diameter (in.)	Embedment Depth (in.)	Allowable Tensile Bond Strength Min. 2,000 psi (13.8 MPa) Concrete (lbs.)	Allowable Tensile Bond Strength Min. 4,000 psi (27.5 MPa) Concrete (lbs.)	Allowable Shear Load $\geq$ 2,000 psi (13.8 MPa) Concrete (lbs.)
3/8	7/16	1-1/2	649	833	883
		3-3/8	1,793	2,209	1,125
		5-1/4	2,625	2,884	1,125
1/2	9/16	2	900	2,029	1,275
		4-1/2	2,434	3,536	2,400
		7	3,915	4,958	2,400
5/8	3/4	2-1/2	1,294	1,763	1,800
		5-5/8	3,626	4,388	4,275
		8-3/4	5,779	6,893	4,275
3/4	7/8	3	1,800	2,783	2,700
		6-3/4	5,280	7,035	4,800
		10-1/2	7,455	8,940	4,800
7/8	1	3-1/2	2,048	2,921	2,625
		7-7/8	6,128	7,905	6,900
		12-1/4	9,818	12,608	6,900
1	1-1/8	4	2,539	3,521	3,450
		9	7,455	10,639	9,375
		14	11,044	13,988	9,375
1-1/4	1-3/8	5	3,375	5,768	4,125
		11-1/4	9,923	15,735	13,500
		17-1/2	17,153	23,115	13,500

## Load Capacities - Threaded Rod

- 1) For additional information on Sikadur AnchorFix-3 performance, consult ICC/ ICBO ES, Inc. Evaluation Report 6182.
- 2) Allowable loads are based on a minimum safety factor of 5.33. Higher factors of safety may be warranted depending on actual application and jobsite conditions.
- 3) Minimum concrete base material thickness must be 1.5 times the anchor embedment depth.
- 4) Allowable load of adhesive anchor must be the lesser of bond or steel strength.

**\*\*For information on the effects of Anchor Spacing and Edge Distance on adhesive anchor performance, please contact Sika's Technical Service Department.**

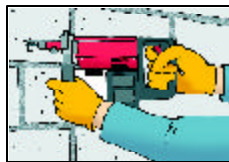
Rebar Size (Diameter)	Drill Bit Diameter (in.)	Embedment Depth (in.)	Allowable Tensile Bond Strength Min. 2,000 psi (13.8 MPa) Concrete (lbs.)	Allowable Shear Load $\geq$ 2,000 psi (13.8 MPa) Concrete (lbs.)
No. 3 (3/8")	1/2	3-3/8	2,039	1,556
No. 4 (1/2")	5/8	4-1/2	2,708	2,085
No. 5 (5/8")	3/4	5-5/8	3,773	3,315
No. 6 (3/4")	7/8	6-3/4	4,935	5,260
No. 7 (7/8")	1	7-7/8	6,248	6,765
No. 8 (1")	1-1/8	9	9,034	9,970
No. 9 (1-1/8")	1-3/8	10-1/8	10,448	12,815
No. 10 (1-1/4")	1-1/2	11-1/4	13,886	15,660

## Load Capacities - Reinforcing Bar

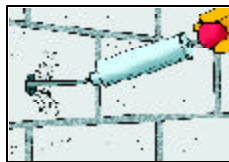
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- 2) Allowable loads are based on a minimum safety factor of 5.33. Higher factors of safety may be warranted depending on actual application and jobsite conditions.
- 3) Minimum concrete base material thickness must be 1.5 times the anchor embedment depth.
- 4) Allowable load of adhesive anchor must be the lesser of bond or steel strength.

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## Methods of Use - Solid Base Material



1. Drill Hole



2. Blow Clean



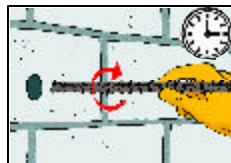
3. Brush and blow clean



4. Pump Dispensing Gun



5. Insert Nozzle



6. Insert Anchor



7. Leave undisturbed

**\*\*For information on installing adhesive anchors in Hollow or questionable base materials, please contact Sika's Technical Service Department.**

KEEP CARTRIDGE TIGHTLY CLOSED  
NOT FOR INTERNAL CONSUMPTION

KEEP OUT OF REACH OF CHILDREN  
FOR INDUSTRIAL USE ONLY

CONSULT MATERIAL SAFETY DATA SHEET FOR MORE INFORMATION

Sika warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current technical data sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor.

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