

## Sika® AnchorFix-2 Arctic

High performance, two component, low temperature adhesive anchor system

<b>Description</b>	Sika® AnchorFix-2 Arctic adhesive anchor system has been specifically formulated as a high performance, two component, low temperature adhesive anchor system for threaded bars in uncracked concrete.
<b>Where to Use</b>	<ul style="list-style-type: none"> <li>■ Uncracked concrete</li> <li>■ Hard natural stone</li> <li>■ Solid rock</li> <li>■ Solid masonry</li> </ul>
<b>Advantages</b>	<ul style="list-style-type: none"> <li>■ Fixing close to free edges.</li> <li>■ Versatile range of embedment depths.</li> <li>■ Anchoring without expansion forces.</li> <li>■ Component volume ratio of 1:1.</li> <li>■ Extended working time.</li> </ul>
<b>Packaging</b>	28.7 fl.oz. (850 ml) cartridge
<b>Approval</b>	European Technical Approval (ETA) according to ETAG001-5.

### Typical Data

RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.

#### Shelf Life

When stored correctly, the shelf life will be for a minimum of 12 months from the date of manufacture.

#### Storage Conditions

Cartridges should be stored in their original packaging, the correct way up, in cool conditions (+32°F to +77°F) out of direct sunlight.

Working & Loading Times			
Cartridge Temperature	T Work (minutes)	Base Material Temperature	T Load
Minimum +23°F	15	-14.8°F - +14°F*	36 hours
	15	+14°F to +23°F	12 hours
	15	+23°F to +32°F	100 minutes
+23°F to +41°F	10	+32°F to +41°F	75 minutes
+41°F to +50°F	5	+41°F to +50°F	50 minutes
+50°F to +68°F	2.5	+50°F to +68°F	50 minutes
+68°F	100 seconds	+68°F	20 minutes

*T Work is the typical time to gel at the highest temperature in the range*  
*T Load is the typical time to reach full capacity*

\*This application is not covered by the scope of the ETA or any other approval for this product.

\*\*The design professional on the job is ultimately responsible for the interpretation of the data provided above.

Construction



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Installation Specification										
Property	Symbol	Unit								
Threaded Rod Diameter	$d_a$	in	5/16	3/8	1/2	5/8	3/4	1	1-1/4	
Drill Bit Diameter	$d_o$	in	3/8	1/2	9/16	11/16	13/16	1-1/16	1-1/2	
Cleaning Brush Size	$d_b$	in	0.551		0.787		1.142		1-2/3	
Minimum Embedment Depth	$h_{ef,min}$	in	2-1/2	3	4	5	6	8	10	
Maximum Embedment Depth	$h_{ef,max}$	in	6-1/4	7-1/2	10	12-1/2	15	20	25	
Minimum Concrete Thickness	$h_{min}$	in	$h_{ef} + 1-1/4$ in $\geq$ 4 in				$h_{ef} + 2 d_o$			
Critical Anchor Spacing	$S_{cr}$	in	3.0 $h_{ef}$							
Critical Edge Distance	$c_{ac}$	in	1.5 $h_{ef}$							
Maximum Tightening Torque	$T_{inst}$	ft.lb	7.5	15	25	55	80	120	200	

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Allowable Steel Strength for Threaded Rods									
		Carbon Steel ASTM F 1554 Grade 36 (A307 Gr.C)		Carbon Steel ASTM A 193 B7		Stainless Steel ASTM F 593 CW		Stainless Steel ASTM F 593 SH	
Anchor Diameter (in)		Allowable Tension, $N_{all}$	Allowable Shear, $V_{all}$	Allowable Tension, $N_{all}$	Allowable Shear, $V_{all}$	Allowable Tension, $N_{all}$	Allowable Shear, $V_{all}$	Allowable Tension, $N_{all}$	Allowable Shear, $V_{all}$
3/8"	lb	2,110	1,080	4,550	2,345	3,360	1,870	4,190	2,160
	kN	9.4	4.8	20.2	10.4	16.1	8.3	18.6	9.6
1/2"	lb	3,750	1,930	8,100	4,170	6,470	3,330	7,450	3,840
	kN	16.7	8.6	36.0	18.5	28.8	14.8	33.1	17.1
5/8"	lb	5,870	3,030	12,655	6,520	10,130	5,220	11,640	6,000
	kN	26.1	13.5	56.3	29.0	45.1	23.2	51.8	26.7
3/4"	lb	8,460	4,360	18,220	9,390	12,400	6,390	15,300	7,880
	kN	37.6	19.4	81.0	41.8	55.2	28.4	68.1	35.1
7/8"	lb	11,500	5,930	24,800	12,780	16,860	8,680	20,830	10,730
	kN	51.2	26.4	110.3	56.8	75.0	38.6	92.7	47.7
1"	lb	15,020	7,740	32,400	16,690	22,020	11,340	27,210	14,020
	kN	66.8	34.4	144.1	74.2	97.9	50.4	121.0	62.4
1 - 1/4"	lb	23,480	12,100	50,640	26,070	34,420	17,730	38,470	19,820
	kN	104.4	53.8	225.1	116.0	153.1	78.9	171.1	88.2

Allowable Tension,  $N_{all} = 0.33 \times f_t \times$  nominal cross sectional area.

Allowable Shear,  $V_{all} = 0.17 \times f_t \times$  nominal cross section area.

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Allowable Steel Strength for Rebar			
Carbon Steel ASTM A 615 Grade 60			
Rebar Size		Allowable Tension, $N_{all}$	Allowable Shear, $V_{all}$
#3	lb	3,280	1,690
	kN	14.6	7.5
#4	lb	5,831	3,004
	kN	25.9	13.4
#5	lb	9,111	4,693
	kN	40.5	20.9
#6	lb	13,121	6,759
	kN	58.4	30.1
#7	lb	17,859	9,200
	kN	79.4	40.9
#8	lb	23,326	12,016
	kN	103.8	53.4
#10	lb	37,623	19,381
	kN	167.4	86.2

Allowable Steel Strength for Rebar			
Carbon Steel CAN/CSA-G30.18 Gr.400			
Rebar Size		Allowable Tension, $N_{all}$	Allowable Shear, $V_{all}$
10M	lb	4,016	2,069
	kN	17.9	9.2
15M	lb	8,052	4,148
	kN	35.8	18.5
20M	lb	11,960	6,161
	kN	53.2	27.4
25M	lb	19,975	10,290
	kN	88.9	45.8
30M	lb	28,121	14,486
	kN	125.1	64.4
35M	lb	40,089	20,652
	kN	178.3	91.9

Tension =  $0.33 \times f_u \times$  nominal cross sectional area

Shear =  $0.17 \times f_u \times$  nominal cross section area

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1. Above values for reinforcing steel assume the design method is the same as a post-installed adhesive anchor, under the principles of anchor design (failure modes will be concrete breakout, pryout, steel failure, or adhesive bond) and not under the principles of reinforcing steel design (failure modes are typically splitting failure, inadequate bar development etc...). CONSULT AN ENGINEERING DESIGN PROFESSIONAL PRIOR TO USE.

Anchor diameter	Embedment Depth	Allowable Concrete Capacity / Bond Strength					
		Tension (lb)			Shear (lb)		
		$f'_c = 2,500$ psi	$f'_c = 4,000$ psi	$f'_c = 8,000$ psi	$f'_c = 2,500$ psi	$f'_c = 4,000$ psi	$f'_c = 8,000$ psi
5/16"	2-1/2"	1,517	1,590	1,704	2,022	2,120	2,272
	3-1/8"	1,896	1,987	2,130	2,528	2,650	2,840
	3-3/4"	2,275	2,385	2,556	3,033	3,179	3,408
3/8"	3"	1,785	1,871	2,005	2,380	2,494	2,673
	3-3/4"	2,231	2,338	2,506	2,975	3,118	3,342
	4-1/2"	2,677	2,806	3,007	3,570	3,741	4,010
1/2"	4"	3,276	3,434	3,680	4,368	4,578	4,907
	5"	4,095	4,292	4,600	5,460	5,723	6,134
	6"	4,914	5,151	5,520	6,552	6,867	7,360
5/8"	5"	5,427	5,688	6,096	7,236	7,584	8,128
	6-1/4"	6,784	7,110	7,620	9,045	9,480	10,160
	7-1/2"	8,140	8,532	9,144	10,854	11,376	12,193
3/4"	6"	6,801	7,128	7,640	9,068	9,505	10,187
	7-1/2"	8,501	8,911	9,550	11,335	11,881	12,733
	9"	10,202	10,693	11,460	13,602	14,257	15,280
1"	8"	11,270	11,812	12,660	15,027	15,750	16,880
	10"	14,088	14,766	15,825	18,783	19,687	21,100
	12"	16,905	17,719	18,990	22,540	23,625	25,320

1. The above values represent mean ultimate values and allowable working loads. The allowable working loads have been reduced using a safety factor of 4.0 for tension and 3.0 for shear, however, in some cases, such as life safety, safety factors of 10.0 or higher may be necessary.

2. Allowable loads must be checked against steel capacity. The lowest value controls.

3. Tabulated data is applicable to single anchors in normal weight concrete unaffected by edge or spacing reduction factors. Values are valid for anchors installed into dry concrete in holes drilled with a hammer drill and ANSI carbide drill bit.

4. Service temperatures should remain approximately constant. The maximum long term temperature being 122°F and the maximum short term temperature being 176°F. Short term temperatures are those that occur over brief intervals, for example, diurnal cycling.

5. Linear interpolation is allowed.

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## Coverage

Anchor size:	(in.)	5/16	3/8	1/2	5/8	3/4	1	1 1/4	
Drill Hole Diameter:	(in.)	3/8	1/2	9/16	3/4	7/8	1 1/8	1 3/8	
Embedment Depth:	(in.)	2 3/8	2 3/8	2 3/4	3 1/8	3 3/4	4	5	
Estimated Number of Fixing *	Cartridge Volume	850 ml	254	143	97	48	29	16	8

\*Number of fixings assumes 30ml wastage in initial extrusion and holes filled to 3/4 full

Anchor size:	(in.)	5/16	3/8	1/2	5/8	3/4	1	1 1/4	
Drill Hole Diameter:	(in.)	3/8	1/2	9/16	3/4	7/8	1 1/8	1 3/8	
Embedment Depth:	(in.)	3 1/8	3 3/4	5	6 1/4	7 1/2	10	12 1/2	
Estimated Number of Fixing *	Cartridge Volume	850 ml	193	90	53	24	14	6	3

\*Number of fixings assumes 30ml wastage in initial extrusion and holes filled to 3/4 full

Anchor size:	(in.)	5/16	3/8	1/2	5/8	3/4	1	1 1/4	
Drill Hole Diameter:	(in.)	3/8	1/2	9/16	3/4	7/8	1 1/8	1 3/8	
Embedment Depth:	(in.)	3 3/4	4 1/2	6	7 1/2	9	12	15	
Estimated Number of Fixing *	Cartridge Volume	850 ml	161	75	44	20	12	5	2

\*Number of fixings assumes 30ml wastage in initial extrusion and holes filled to 3/4 full

## Application

### Installation Method (Solid Substrates)

1. Drill the hole to the correct diameter and depth. This can be done with either a rotary percussion or rotary machine depending upon the substrate.

2. Thoroughly clean the hole in the following sequence using a brush with the required extensions and a source of clean compressed air. For holes of 15.8 in. (400mm) or less deep, a Blow Pump may be used:

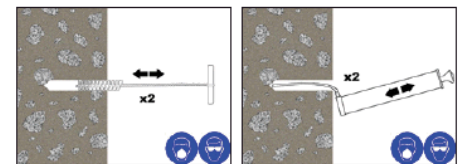
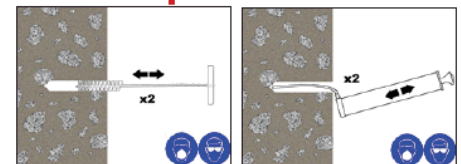
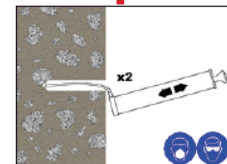
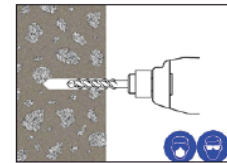
Blow Clean x2.  
Brush Clean x2.  
Blow Clean x2.  
Brush Clean x2.  
Blow Clean x2.

3. Select the appropriate static mixer nozzle for the installation, open the cartridge/foil and screw onto the mouth of the cartridge. Insert the cartridge into a good quality applicator.

4. Extrude the first part of the cartridge (at least dispense three full strokes) to waste until an even color has been achieved without streaking in the resin before injecting the resin into the drilled hole.

5. If necessary, cut the extension tube to the depth of the hole and push onto the end of the mixer nozzle, and (for rebar .6 in. dia. or more) fit the correct resin stopper to the other end. Attach extension tubing and resin stopper.

6. Insert the mixer nozzle (resin stopper / extension tube if applicable) to the bottom of the hole. Begin to extrude the resin and slowly withdraw the mixer



If the hole collects water after the initial cleaning, this water must be removed before injecting the resin.



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nozzle from the hole ensuring that there are no air voids as the mixer nozzle is withdrawn. Fill the hole to approximately  $\frac{1}{2}$  to  $\frac{3}{4}$  full and withdraw the nozzle completely.

7. Insert the clean threaded bar, free from oil or other release agents, to the bottom of the hole using a back and forth twisting motion ensuring all the threads are thoroughly coated. Adjust to the correct position within the stated working time (see table on page 4).

8. Any excess resin should be expelled from the hole evenly around the steel element showing that the hole is full.

This excess resin should be removed from around the mouth of the hole before it sets.

9. Leave the anchor to cure.

Do not disturb the anchor until the appropriate loading/curing time, on page 4, has elapsed depending on the substrate conditions and ambient temperature.

10. Attach the fixture and tighten the nut to the recommended torque, **do not overtighten**.

### Hollow Substrate Installation Method

1. Drill the hole to the correct diameter and depth. This should be done with a rotary percussion drilling machine to reduce spalling.

2. Thoroughly clean the hole in the following sequence using the 2K DF Brush with the required extensions and a source of clean compressed air. For holes of 15.6 in. (400mm) or less deep, a Blow Pump may be used:

Brush Clean x1.  
Blow Clean x1.

3. Select the appropriate static mixer nozzle for the installation, open the cartridge/foil and screw onto the mouth of the cartridge. Insert the cartridge into a good quality applicator.

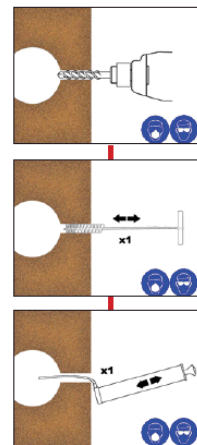
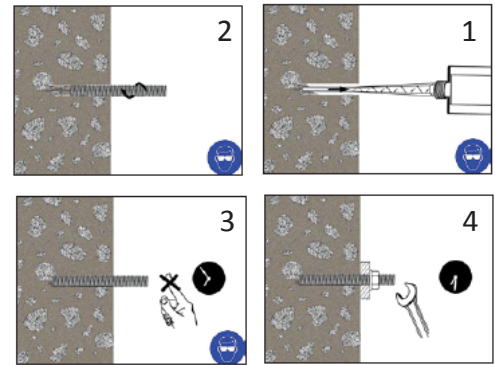
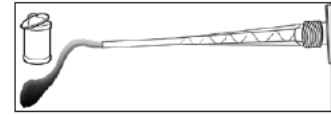
4. Extrude the first part of the cartridge (at least dispense three full strokes) to waste until an even color has been achieved without streaking in the resin before injecting the resin into the drilled hole.

5. Select the appropriate perforated sleeve and insert into the hole.

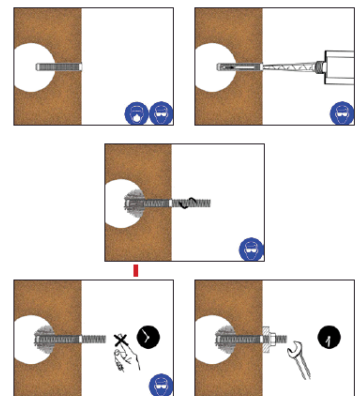
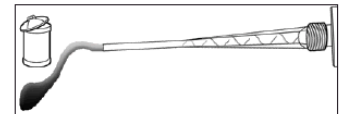
6. Insert the mixer nozzle to the bottom of the perforated sleeve, withdraw 0.07 - 0.1 in. (2-3mm) then begin to extrude the resin and slowly withdraw the mixer nozzle from the hole ensuring that there are no air voids as the mixer nozzle is withdrawn. Fill the perforated sleeve completely and remove the mixer nozzle and cartridge completely.

7. Insert the clean threaded bar, free from oil or other release agents, to the bottom of the hole using a back and forth twisting motion ensuring all the threads are thoroughly coated. Adjust to the correct position within the stated working time (see table on page 1).

8. Any excess resin should be expelled from the hole evenly around the steel element showing that the hole is full.



*If the hole collects water after the initial cleaning, this water must be removed before injecting the resin.*



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This excess resin should be removed from around the mouth of the hole before it sets.

9. Leave the anchor to cure.

Do not disturb the anchor until the appropriate loading/ curing time, on page 4, has elapsed depending on the substrate conditions and ambient temperature.

10. Attach the fixture and tighten the nut to the recommended torque, **do not overtighten**.

## Limitations

**THE NTSB HAS STATED THAT THIS PRODUCT IS APPROVED FOR SHORT TERM LOADS ONLY AND SHOULD NOT BE USED IN SUSTAINED TENSILE LOAD ADHESIVE ANCHORING APPLICATIONS WHERE ADHESIVE FAILURE COULD RESULT IN A PUBLIC SAFETY RISK. CONSULT A DESIGN PROFESSIONAL PRIOR TO USE.**

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- Not for use in overhead applications.
- Not for use in cracked concrete.
- Minimum Application Temperature -14.8°F (-26°C)
- Maximum Application Temperature 68°F (20°C)

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KEEP CONTAINER TIGHTLY CLOSED. KEEP OUT OF REACH OF CHILDREN. NOT FOR INTERNAL CONSUMPTION. FOR INDUSTRIAL USE ONLY. FOR PROFESSIONAL USE ONLY.

For further information and advice regarding transportation, handling, storage and disposal of chemical products, users should refer to the actual Safety Data Sheets containing physical, ecological, toxicological and other safety related data. Read the current actual Safety Data Sheet before using the product. In case of emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Product Data Sheet, product label and Safety Data Sheet which are available online at <http://usa.sika.com/> or by calling Sika's Technical Service Department at 800-933-7452. Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instruction for each Sika product as set forth in the current Product Data Sheet, product label and Safety Data Sheet prior to product use.

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 Product 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. NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS. SALE OF SIKA PRODUCTS ARE SUBJECT SIKA'S TERMS AND CONDITIONS OF SALE AVAILABLE AT [HTTP://USA.SIKA.COM/](http://usa.sika.com/) OR BY CALLING 201-933-8800.

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