BUILDING TRUST

PRODUCT DATA SHEET

Sika AnchorFix®-2 Pro Tropical

Anchoring adhesive for medium to high loads in hot climates

DESCRIPTION

Sika AnchorFix®-2 Pro Tropical is a 2-part epoxy acrylate anchoring adhesive for hot or tropical climate conditions. It is free of solvents and styrene.

USES

Sika AnchorFix®-2 Pro Tropical may only be used by experienced professionals.

The Product is used as a fast-curing anchoring adhesive for the following substrates and materials:
- Reinforcing steel
- Threaded rods
- Bolts and special fastening systems
- Concrete
- Solid masonry
- Steel
- Hard natural stone
- Solid rock

FEATURES

- Fast curing
- Application with single-tube dispensers
- Very good load capacity
- Suitable for cracked and uncracked concrete
- Seismic testing C1 and C2 available
- Thixotropic: non-sag in vertical and overhead applications
- Styrene-free
- Low odour
- Low wastage
- Suitable for application to dry or wet concrete
- Suitable for application with flooded bore holes (except salt water)

CERTIFICATES AND TEST REPORTS

- CE marking and declaration of performance based on European Technical Assessment ETA-21/0666. ETA issued on the basis of EAD 330499-01-0601 Bonded fasteners for use in concrete.
- CE marking and declaration of performance based on European Technical Assessment ETA-21/0665. ETA issued on the basis of EAD 330499-00-0601 Bonded fasteners for use in concrete.

PRODUCT INFORMATION

Packaging	165 ml standard cartridge	12 cartridges per box 105 boxes per pallet
	300 ml standard cartridge	12 cartridges per box 96 boxes per pallet
	380 ml coaxial cartridge	12 cartridges per box 70 boxes per pallet
	825 ml side-by-side cartridge	8 cartridges per box 39 boxes per pallet
	Refer to the current price list for available packaging variations.	

Shelf life

165 ml standard cartridge	12 months from date of production.
300 ml standard cartridge	12 months from date of production.
380 ml coaxial cartridge	18 months from date of production.
825 ml side-by-side cartridge	18 months from date of production.

All cartridges have the expiry date printed on the label.

Storage conditions

The Product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5 °C and +25 °C. Always refer to packaging.
Refer to the current Safety Data Sheet for information on safe handling and storage.

Colour

Part A	off white
Part B	black
Part A+B	grey

Density

Part A+B mixed	1.77 kg/l

SYSTEM INFORMATION

System structure

Ancillary products:
- Sika AnchorFix® Flexible Extensions
- Sika AnchorFix® Hole Cleaning Brushes Steel
- Sika AnchorFix® Static Mixers / Nozzles
- Sika AnchorFix® Straight Extensions
- Sika AnchorFix® Resin Stoppers

TECHNICAL INFORMATION

Compressive strength	Cured 7 days at +20 °C	60 N/mm²	(ASTM D695)
Modulus of elasticity in compression	Cured 7 days at +20 °C	4 500 N/mm²	(ASTM D695)
Flexural-strength	Cured 7 days at +20 °C	17 N/mm²	(ASTM D790)
Tensile strength	Cured 7 days at +20 °C	9 N/mm²	(ASTM D638)
Modulus of elasticity in tension	Cured 7 days at +20 °C	2 600 N/mm²	(ASTM D638)
Electrical resistivity	3.6 × 10^9 Ω		(IEC 60093)

Service temperature

TEMPERATURE RANGE T1
Temperature range T1 (EAD 330499-01-0601)

Time	Minimum	Maximum
Long term	-40 °C	+24 °C.
Short term (up to 2 hours)	-	+40 °C

TEMPERATURE RANGE T2
Temperature range T2

Time	Minimum	Maximum
Long term	-40 °C	+50 °C.
Short term (up to 2 hours)	-	+80 °C

APPLICATION INFORMATION

Mixing ratio	Part A : Part B	10 : 1 by volume
Layer thickness	Maximum	5 mm

Sag flow	Non-sag, even overhead	
Material temperature	Maximum	+45 °C
	Minimum	+5 °C
Ambient air temperature	Maximum	+45 °C
	Minimum	+10 °C
Substrate temperature	Maximum	+45 °C
	Minimum	+10 °C

Curing time

Temperature	Open time - T_{gel}	Curing time - T_{cur} T_{cur} is doubled for wet concrete
+ 45 °C	2 minutes	20 minutes
+40 °C to +44 °C	4 minutes	25 minutes
+35 °C to +39 °C	6 minutes	45 minutes
+30 °C to +34 °C	10 minutes	80 minutes
+20 °C to +29 °C	15 minutes	145 minutes
+15 °C to +19 °C	20 minutes	210 minutes
+10 °C to +14 °C	30 minutes	5 hours

BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

ECOLOGY, HEALTH AND SAFETY

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.

APPLICATION INSTRUCTIONS

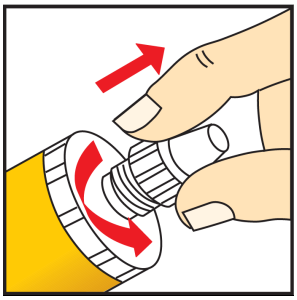
SUBSTRATE QUALITY

Mortar and concrete must be older than 28 days.
Verify the substrate strength (concrete, masonry, natural stone). Perform pull-out tests if the substrate strength is unknown.
Make sure that the anchor hole is clean, dry, free from oil and grease. Remove loose particles from the anchor hole.
Clean threaded rods and reinforcement bars thoroughly. Remove oil, grease or any other substances and particles such as dirt.

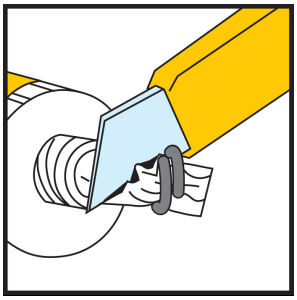
MIXING

GETTING THE CARTRIDGE READY: 165 ML OR 300 ML

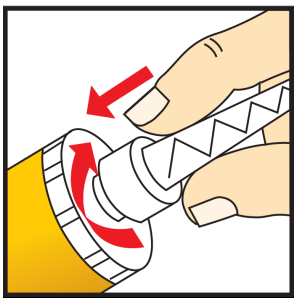
1. Unscrew the cap.



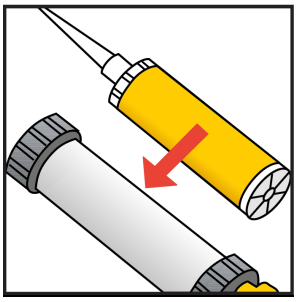
2. Cut the film



3. Screw on the static mixer.

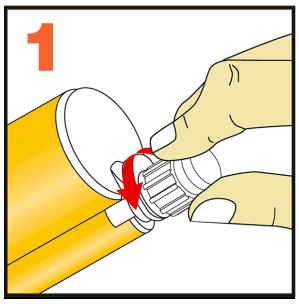


4. Place the cartridge into the dispenser and start application.

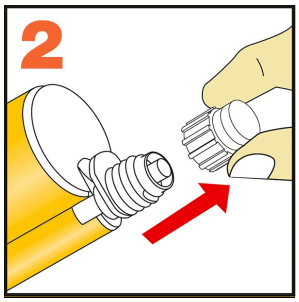


GETTING THE CARTRIDGE READY: 380 ML OR 825 ML

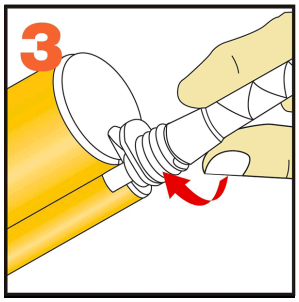
1. Unscrew the cap.



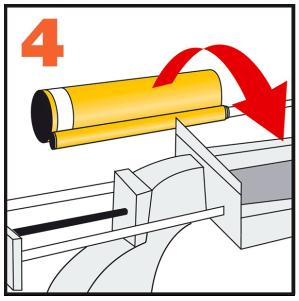
2. Remove the cap.



3. Screw on the static mixer.



4. Place the cartridge into the dispenser and start application.



APPLICATION

Test if the Product is suitable for the substrate

Note: Due to the variety of possible substrates, the Product's suitability for the substrate must be confirmed before application, particularly in terms of desired bond strength, composition, porosity, potential surface staining or discolouration.

1. Test the Product's suitability in a sample area.

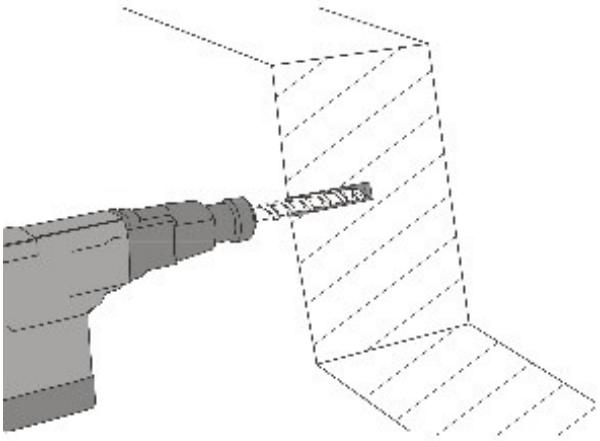
Hardened material in the static mixer nozzle

Note: When work is interrupted, the static mixer nozzle can remain on the cartridge after the pressure of the sealant dispenser has been released.

1. Attach a new nozzle if the resin has hardened in the nozzle when work is resumed

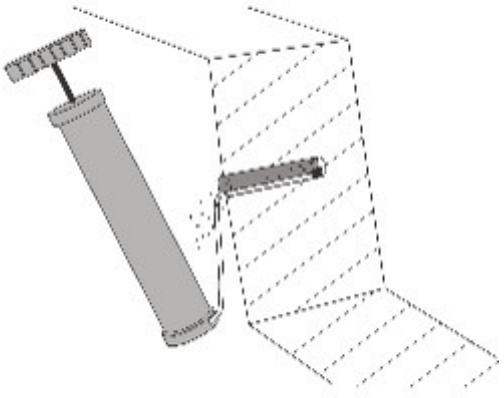
ANCHORS IN SOLID MASONRY OR CONCRETE

1. Drill a hole with an electric drill to the diameter and depth required. IMPORTANT Make sure that the drill hole diameter is in accordance with the anchor size.

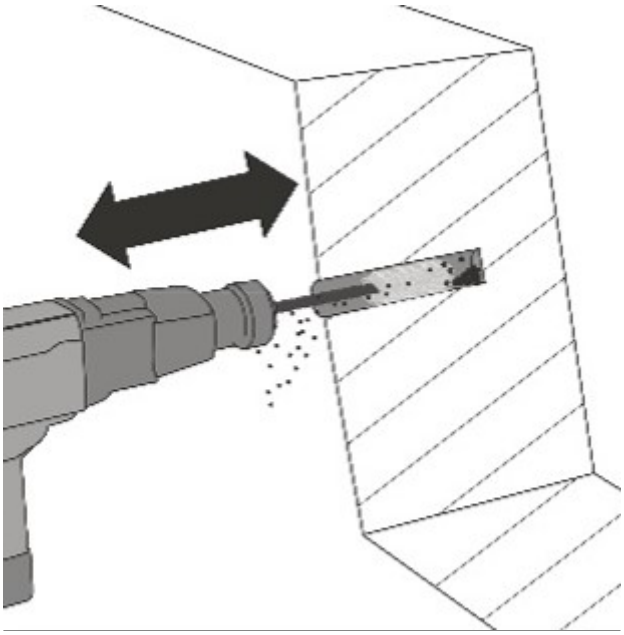


CLEANING DRILL HOLES WITH DIAMETER D0 ≤ ⍰ 20 MM AND EMDEDDED DEPTH ≤ 240 MM

1. IMPORTANT Use oil-free compressors. Clean the drill hole with a blow pump or by compressed air, starting from the bottom of the drill hole.
   Note: Clean the drill hole a minimum of two times.

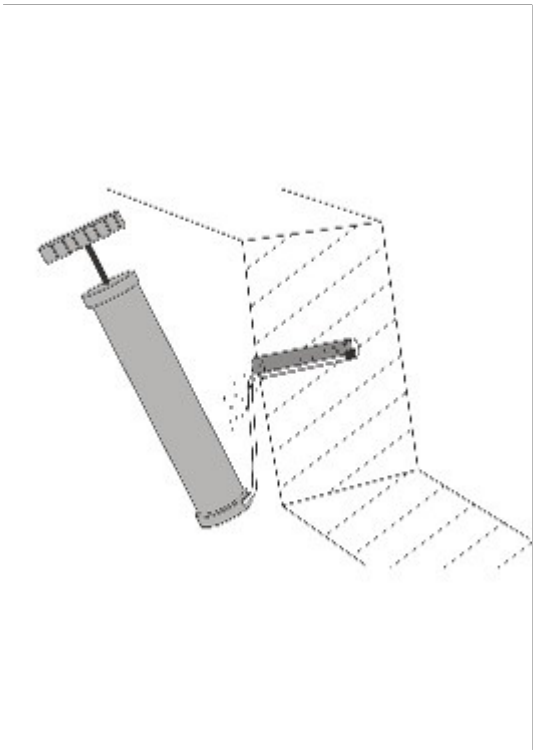


2. Thoroughly clean the drill hole with a steel brush.
   Note: The diameter of the brush must be larger than the diameter of the drill hole. Clean the drill hole a minimum of two times.



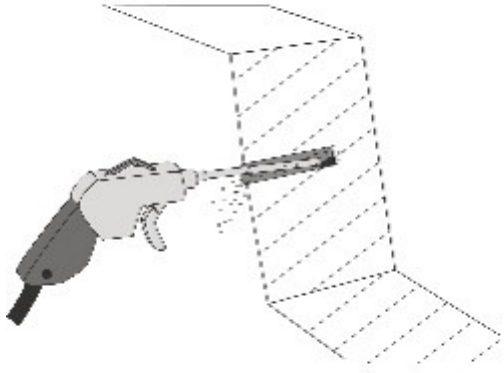
3. IMPORTANT Use oil-free compressors. Clean the drill hole with a blow pump or by compressed air, starting from the bottom of the drill hole.

Note: Clean the drill hole a minimum of two times.

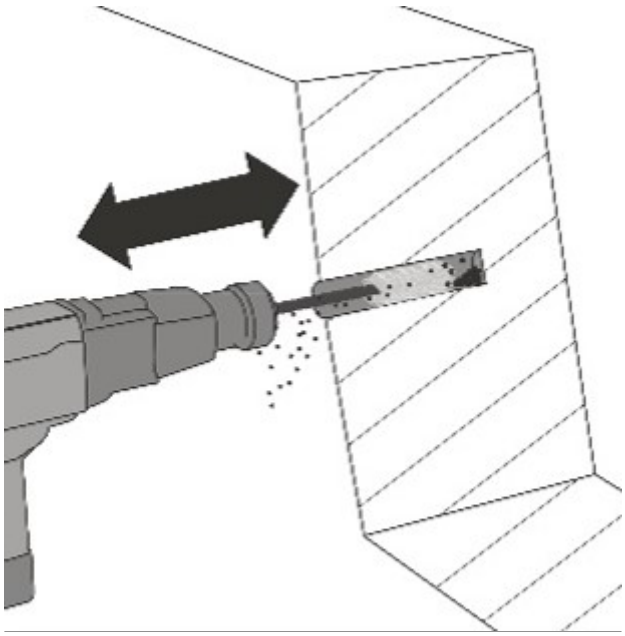


CLEANING DRILL HOLES WITH DIAMETER D0 > □ 20 MM AND EMDEDDED DEPTH > 240 MM

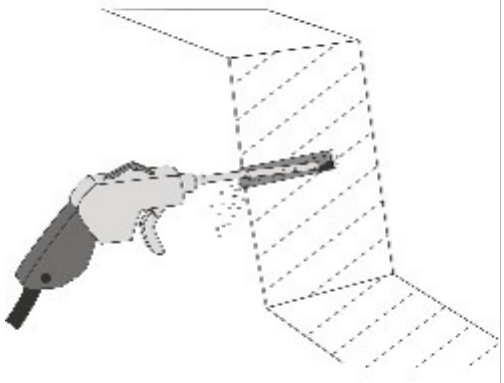
1. IMPORTANT Use oil-free compressors. Start from the bottom and clean the drill hole using an air lance, pressure: 6 bar (90 psi).
   Note: Clean the drill hole a minimum of two times until the return air stream is free from dust.



2. Thoroughly clean the drill hole with a steel brush.
   Note: The diameter of the brush must be larger than the diameter of the drill hole. Clean the drill hole a minimum of two times.

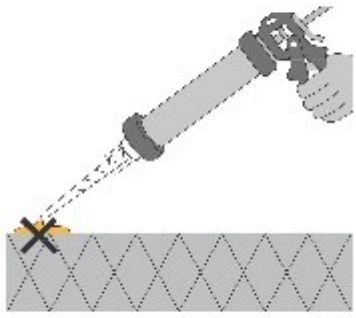


3. IMPORTANT Use oil-free compressors. Start from the bottom and clean the drill hole using an air lance, pressure: 6 bar (90 psi).
   Note: Clean the drill hole a minimum of two times until the return air stream is free from dust.

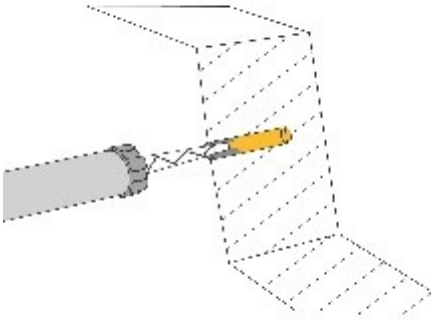


ADHESIVE APPLICATION

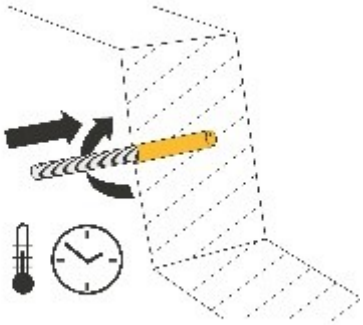
1. Pump the Product until both parts are extruded uniformly, with a consistent colour. IMPORTANT Do not use this material. Release the dispenser pressure and clean the cartridge nozzle with a cloth.



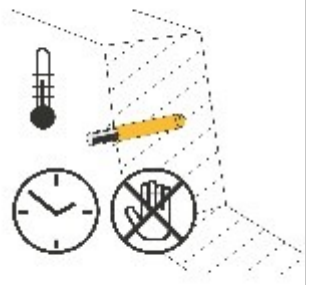
2. IMPORTANT Do not entrap air into the drill hole. Inject the Product into the drill hole starting from the bottom, while slowly drawing back the static mixer. Note: For deep drill holes, extension tubing can be used.



3. IMPORTANT Place the anchor within the open time. Insert the anchor with a rotary motion into the filled drill hole.
   Note: Some adhesive must come out of the drill hole.



4. Do not load or move the anchor during the hardening time.



5. Immediately clean tools with Sika® Colma Cleaner.
6. Wash hands and skin thoroughly with warm soap water.

CLEANING OF EQUIPMENT

Clean all tools and application equipment with Sika® Colma Cleaner immediately after use. Hardened material can only be removed mechanically.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

Sika (Thailand) Limited
700/37 Moo 5 Amata City Chonburi
Industrial Estate, T. Klong Tamhru
A. Muang, Chonburi 20000, Thailand
Tel : +66 3810 9500
E-mail : sikathai@th.sika.com
Website: tha.sika.com