BUILDING TRUST

PRODUCT DATA SHEET

Sika AnchorFix®-2+ Tropical

Anchoring adhesive for medium to high loads in hot climates

DESCRIPTION

Sika AnchorFix®-2+ Tropical is a solvent and styrene free, epoxy acrylate based, 2-component anchoring adhesive for hot or tropical climate conditions.

USES

Sika AnchorFix®-2+ 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
- Cracked or solid concrete
- Solid masonry
- Steel
- Hard natural stone
- Solid rock

FEATURES

- Fast curing
- Application with single-tube dispensers
- Very good load capacity
- ETA for anchoring in concrete
- ETA for post installed rebar connections
- Suitable for cracked and uncracked concrete
- Suitable for contact with drinking water
- Thixotropic: non-sag in vertical and overhead applications
- Styrene-free
- Low odour
- Low wastage

SUSTAINABILITY

- Contributes towards satisfying Indoor Environmental Quality (EQ) Credit: Low-Emitting Materials under LEED® v4

CERTIFICATES AND TEST REPORTS

- Drinking Water System Components NSF/ANSI 61, IAPMO R&T, Certificate No. K-8319
- CE marking and declaration of performance based on European Technical Assessment ETA-14/0346 Bonded fastener for use in cracked and uncracked concrete for a service life of 50 and/or 100 years. 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 13/0779 Post installed rebar connections. ETA issued on the basis of ETAG 001 Metal anchors for use in concrete, Part 1: General and Part 5: Bonded Anchors.

PRODUCT INFORMATION

Packaging	300 ml standard cartridge	12 cartridges per box
	Refer to the current price list for available packaging variations.	
Shelf life	15 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	1.60 kg/l to 1.75 kg/l
	Part B	1.45 kg/l to 1.50 kg/l
	Part A+B mixed	1.65 kg/l to1.75 kg/l
Volatile organic compound (VOC) content	62 g/l	(ASTM D2369)

TECHNICAL INFORMATION

Compressive strength	Cured 7 days at +20 °C	70 N/mm²	(ASTM D695)
Modulus of elasticity in compression	Cured 7 days at +20 °C	7 000 N/mm²	(ASTM D695)
Flexural-strength	Cured 7 days at +20 °C	29 N/mm²	(ASTM D790)
Tensile strength	Cured 7 days at +20 °C	15 N/mm²	(ASTM D638)
Modulus of elasticity in tension	Cured 7 days at +20 °C	3 800 N/mm²	(ASTM D638)

Service temperature (EAD 330499-01-0601)

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

Temperature resistance	Long term	+50 °C (EAD 330499-01-0601)
	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	+40 °C
	Minimum	+15 °C
Ambient air temperature	Maximum	+40 °C
	Minimum	+15 °C
Dew point	Beware of condensation. Substrate temperature during application must be at least +3 °C above dew point.	

Substrate temperature		
	Maximum	+40 °C
	Minimum	+15 °C

Curing time

Temperature	Open time - T_{gel}	Curing time - T_{cur}
+35 °C to +40 °C	3.5 minutes	40 minutes
+30 °C to +35 °C	5 minutes	50 minutes
+25 °C to +30 °C	7.5 minutes	85 minutes
+20 °C to +25 °C	10 minutes	145 minutes
+15 °C to +20 °C Minimum cartridge temperature: +15 °C	15 minutes	5 hours

BASIS OF PRODUCT DATA

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

FURTHER INFORMATION

For design details, refer to the following Technical Documentation: 870 43 13 Technical Documentation Sika AnchorFix®-2+ Tropical (09 / 2016) 1
For application details, refer to the following documentation : 850 42 07 Method Statement SikaAnchorFix® chemical anchoring

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

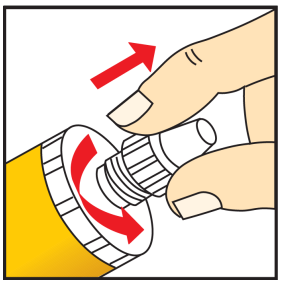
APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY

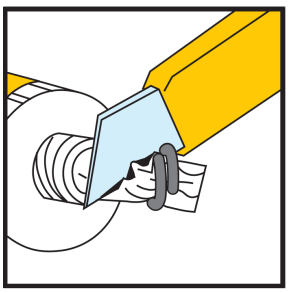
Mortar and concrete must be older than 28 days.
Verify the substrate strength (concrete, masonry, natural stone). Perform pull-out tests if the substrate strength is unknown.
Make sure that the anchor hole is clean, dry, free from oil and grease. Remove loose particles from the anchor hole.
Clean threaded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

MIXING

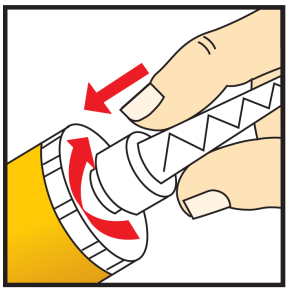
GETTING THE CARTRIDGE READY: 300 ML, 550 ML OR 850 ML



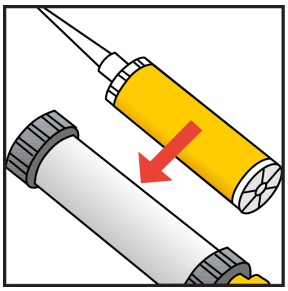
1. Unscrew the cap



2. Cut the film

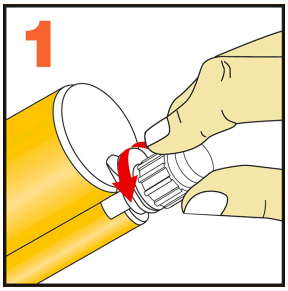


3. Screw on the static mixer

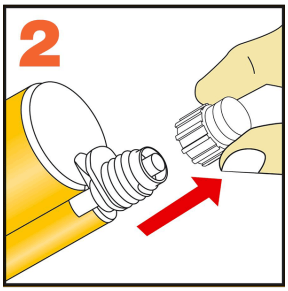


4. Place the cartridge into the dispenser and start application

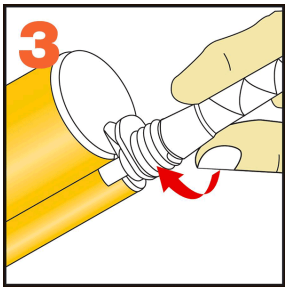
GETTING THE CARTRIDGE READY: 350 ML OR 825 ML



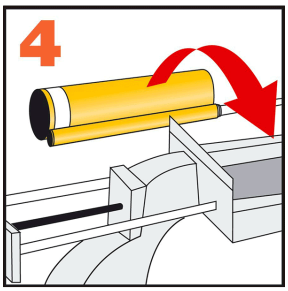
1.Unscrew the cap



2. Remove the cap



3. Screw on the static mixer



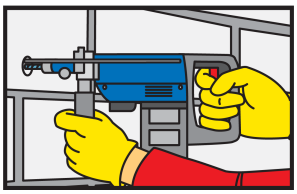
4. Place the cartridge into the dispenser and start application

APPLICATION

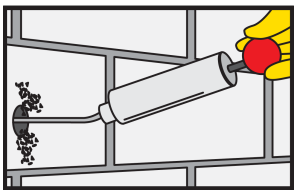
Note: Test if the Product is suitable for the substrate
Due to the variety of possible substrates, the Product's suitabilityfor the substrate must be confirmed before application, particularly in terms of desired bond strength, composition, porosity, potntial surface staining or discolouration.
a) Test the Product's suitability in a sample area.

ANCHORS IN SOLID MASONRY OR CONCRETE:

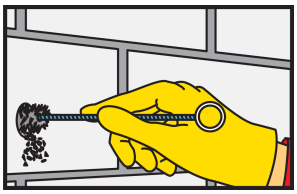
1. IMPORTANT Make sure that the drill hole diameter is in accordance with the anchor size.
Drill a hole with an electric drill to the diameter and depthspecified in the Technical Documentation listed in the section Further Information.



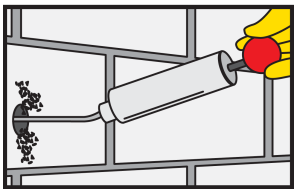
2. IMPORTANT Use oil free compressors.Clean the drill hole with a blow pump or by compressed air, starting from the bottom of the hole.
Note: The hole must be cleaned a minimum of two times.



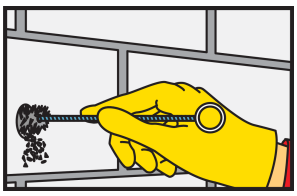
3. Thoroughly clean the drill hole with the steel brush.
Note: The diameter of the brush must be larger than the diameter of the drill hole and the hole must be cleaned a minimum of two times.



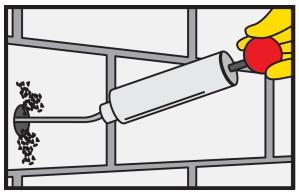
4. IMPORTANT Use oil free compressors.
Clean the drill hole with a blow pump or by compressed air, starting from the bottom of the hole.
Note: The hole must be cleaned a minimum of two times.



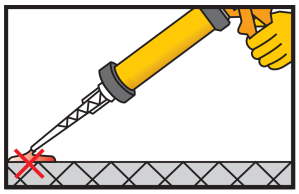
5. Thoroughly clean the drill hole with the steel brush.
Note: The diameter of the brush must be larger than the diameter of the drill hole and the hole must be cleaned a minimum of two times.



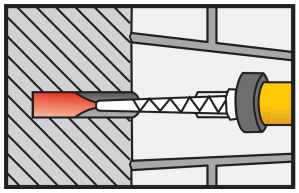
6. IMPORTANT Use oil free compressors.
Clean the drill hole with a blow pump or by compressed air,starting from the bottom of the hole.
Note: The hole must be cleaned a minimum of two times.



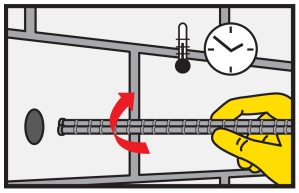
7. IMPORTANT Do not use this material.
Pump the Product until both parts come out uniformly. Release the gun pressure and clean the cartridge nozzle with acloth.



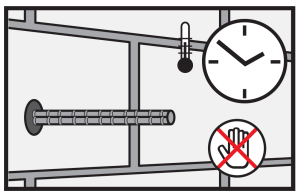
8. IMPORTANT Do not entrap air into the hole.
Inject the Product into the hole starting from the bottomwhile slowly drawing back the static mixer.
Note: For deep holes extension tubing can be used.



9. IMPORTANT The anchor must be placed within the opentime.
Insert the anchor with a rotary motion into the filled drill hole.
Note: Some adhesive must come out of the hole.



10. Do not load or move the anchor during the hardening time.
11. Immediately clean tools with Sika® Colma Cleaner.
12. 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

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

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.

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