BUILDING TRUST

PRODUCT DATA SHEET

Sika AnchorFix® S

Universal anchoring adhesive

DESCRIPTION

Sika AnchorFix® S is a two-part, styrenated polyester anchoring adhesive.

USES

Sika AnchorFix® S may only be used by experienced professionals.

Sika AnchorFix® S is used as a fast-curing anchoring adhesive for the following substrates:
- Concrete
- Hollow and solid masonry
- Hard natural stone
- Solid rock

Sika AnchorFix® S is used as a fast-curing anchoring adhesive for the following objects:
- Reinforcing steel
- Bolts and special fastening systems
- Threaded rods

Please note:
- The Product may only be used by experienced professionals.

CHARACTERISTICS / ADVANTAGES

- Fast curing
- Thixotropic: non-sag in vertical and overhead applications
- Low wastage
- Suitable for use in dry, wet, and flooded holes
- ETA to EAD 330499-01-0601 for threaded rods in uncracked concrete

ENVIRONMENTAL INFORMATION

- Contributes towards satisfying Indoor Environmental Quality (EQ) Credit: Low-Emitting Materials under LEED® v4 — 1–3 points
- Complies with the requirements of AgBB including the LCI-values (June 2021) for use in the indoor environment.

APPROVALS / STANDARDS

- CE marking and declaration of performance based on European Technical Assessment ETA-13/0721. ETA issued on the basis of EAD 330499-00-0601 Bonded fasteners for use in concrete.

PRODUCT INFORMATION

Chemical Base	Styrenated polyester	
Packaging	300 ml dual cartridge	12 cartridges per box
Colour	Part A	white
	Part B	black
	Part A+B	light grey
Shelf Life	12 months from date of production	

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. Protect the Product from direct sunlight. Refer to the current Safety Data Sheet for information on safe handling and storage.
Density	1.7 kg/L (ISO 1183-1)

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	3 100 N/mm²	(ASTM D695)
Tensile Strength in Flexure	Cured 7 days at +20 °C	24 N/mm²	(ASTM D790)
Tensile Strength	Cured 7 days at +20 °C	12 N/mm²	(ASTM D638)

Service Temperature (EAD 330499-00-0601)

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	3 mm
Sag Flow	Non-sag, even overhead	
Product Temperature	Maximum	+40 °C
	Minimum	+5 °C
Ambient Air Temperature	Maximum	+40 °C
	Minimum	+5 °C
Dew Point	The substrate temperature must be at least +3 °C above dew point to reduce the risk of condensation decreasing adhesion.	
Substrate Temperature	Maximum	+40 °C
	Minimum	+5 °C

Curing Time

Cartridge temperature	Open time - T_{gel}	Substrate temperature	Curing time - T_{cur}
min. +5 °C	18 minutes	min. +5 °C	120 minutes
+5 °C to +10 °C	12 minutes	+5 °C to +10 °C	120 minutes
+10 °C to +20 °C	6 minutes	+10 °C to +20 °C	80 minutes
+20 °C to +25 °C	4 minutes	+20 °C to +25 °C	40 minutes
+25 °C to +30 °C	3 minutes	+25 °C to +30 °C	30 minutes
+30 °C to +35 °C	2 minutes	+30 °C to +35 °C	20 minutes
+35 °C to +40 °C	1.5 minutes	+35 °C to +40 °C	15 minutes
+40 °C	1.5 minutes	+40 °C	10 minutes

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.

FURTHER DOCUMENTS

For design details, refer to the following technical documentation: 870 43 03 Technical Documentation Sika AnchorFix®-S (07 / 2015) 2

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 Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

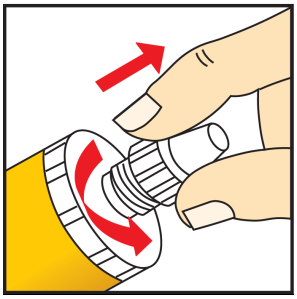
SUBSTRATE PREPARATION

Mortar and concrete must have the required strength. They do not need to be 28 days old.
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.

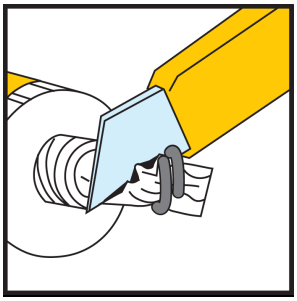
MIXING

GETTING THE CARTRIDGE READY: 300 ML

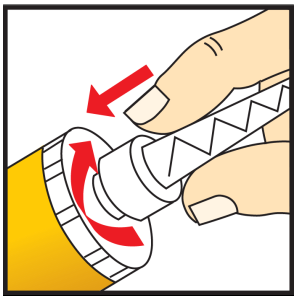
1. Unscrew the cap.



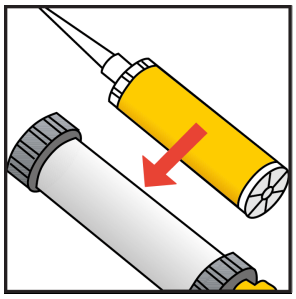
2. Cut the film.



3. Screw on the static mixer.

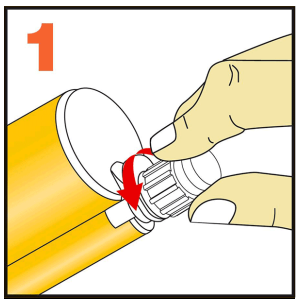


4. Place the cartridge into the dispenser and start application.

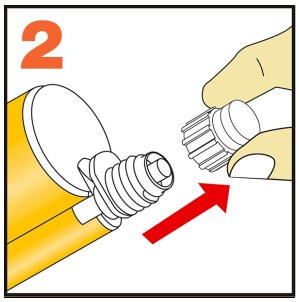


GETTING THE CARTRIDGE READY: 380 ML

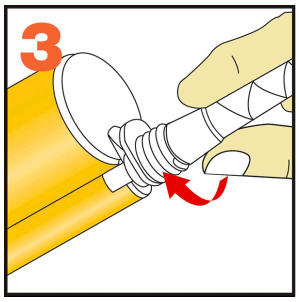
1. Unscrew the cap.



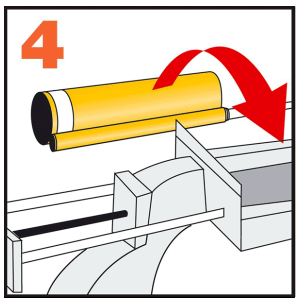
2. Remove the cap.



3. Screw on the static mixer.



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

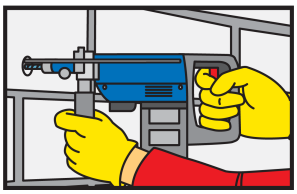


APPLICATION

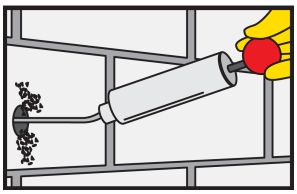
Test if the Product is suitable for the substrate
Note: Due to the variety of possible substrates, the Product's suitability for the substrate must be confirmed before application, particularly in terms of desired bond strength, composition, porosity, potential surface staining or discolouration.
1.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

ANCHORS IN SOLID MASONRY OR CONCRETE

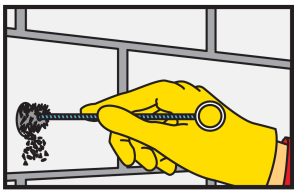
1. IMPORTANT Make sure that the drill hole diameter is in accordance with the anchor size. Drill a hole with an electric drill to the diameter and depth specified in the Technical Documentation listed in the section Further Information.



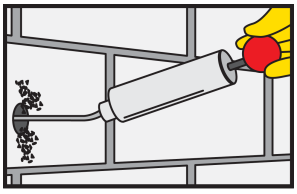
2. IMPORTANT Use oil-free compressors. Clean the drill hole with a blow pump or by compressed air, starting from the bottom of the hole. Note The hole must be cleaned a minimum of two times.



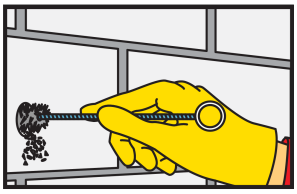
3. Thoroughly clean the drill hole with the steel brush. Note The diameter of the brush must be larger than the diameter of the drill hole and the hole must be cleaned a minimum of two times.



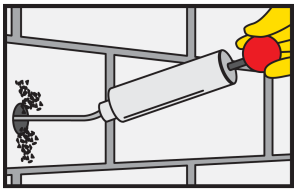
4. IMPORTANT Use oil-free compressors. Clean the drill hole with a blow pump or by compressed air, starting from the bottom of the hole. Note The hole must be cleaned a minimum of two times.



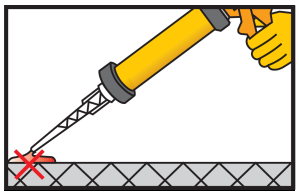
5. Thoroughly clean the drill hole with the steel brush. Note The diameter of the brush must be larger than the diameter of the drill hole and the hole must be cleaned a minimum of two times.



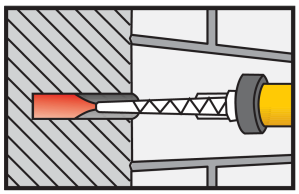
6.IMPORTANT Use oil-free compressors. Clean the drill hole with a blow pump or by compressed air, starting from the bottom of the hole. Note The hole must be cleaned a minimum of two times.



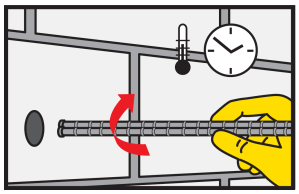
7. Pump the Product until both parts come out uniformly. Release the gun pressure and clean the cartridge nozzle with a cloth.



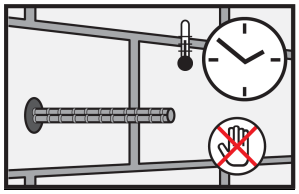
8.IMPORTANT Do not entrap air into the hole. Inject the Product into the hole starting from the bottom while slowly drawing back the static mixer. Note For deep holes extension tubing can be used.



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



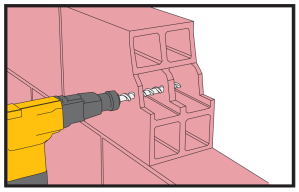
10. Do not load or move the anchor during the hardening time.



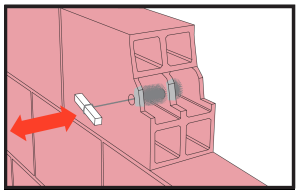
11. Immediately clean tools with Sika® Colma Cleaner.
12. Wash hands and skin thoroughly with warm soap water.

ANCHORS IN HOLLOW BLOCKS

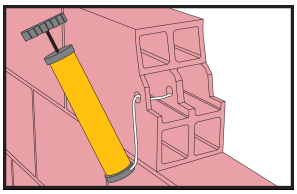
1. IMPORTANT Do not use rotary hammer drills. Drill a hole with an electric drill to the diameter and depth specified in the Technical Documentation listed in the section Further Information. The drill hole diameter must be in accordance with the anchor and the perforated sleeve size.



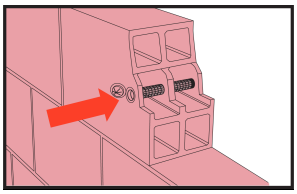
2. Clean, at least once, the drill hole with a hybrid brush. Note The diameter of the brush must be larger than the diameter of the drill hole.



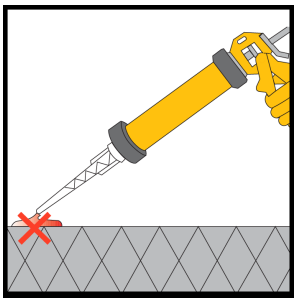
3. IMPORTANT Use oil free compressors. After cleaning the drill hole with the brush, clean the drill hole each time with a blow pump.



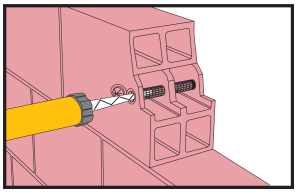
4. Insert the perforated sleeve completely into the drill hole.



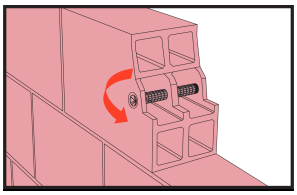
5. Pump the Product until both parts come out uniformly. Discard this material. Release the gun pressure and clean the cartridge nozzle with a cloth.



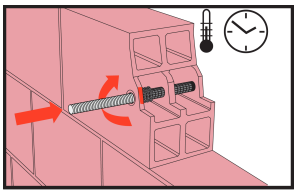
6. IMPORTANT Do not entrap air into the hole. Inject the Product into the perforated sleeve starting from the bottom, while slowly drawing back the static mixer.



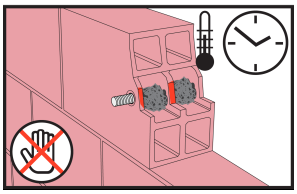
7. Close the cap of the perforated sleeve to prevent adhesive from escaping when inserting the steel rod.



8. IMPORTANT The anchor must be placed within the open time. Insert the anchor with a rotary motion into the filled perforated sleeve. Use the appropriate steel rod size. Note Some adhesive must come out of the hole.



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



CLEANING OF TOOLS

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.

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