Sika AnchorFix® S

Universal anchoring adhesive

DESCRIPTION

Styrenated polyester based 2-component anchoring adhesive.

USES

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

As a fast curing anchoring adhesive for all grades of:
- Rebars / reinforcing steel
- Threaded rods
- Bolts and special fastening systems

In the following substrates:
- Concrete
- Hollow and solid masonry
- Hard natural stone*
- Solid rock*

* These substrates may vary greatly, in particular with regard to strength, composition and porosity. Therefore, for each application the suitability of Sika Sika AnchorFix® S adhesive must be tested by first applying the Product only to a sample area. Check in particular bond strength, surface staining and discolouration.

CHARACTERISTICS / ADVANTAGES

- Fast curing
- Non-sag, even overhead
- ETA for anchoring in uncracked concrete
- Low wastage

APPROVALS / STANDARDS

- CE marking and Declaration of Performance as Bonded injection type anchor for use in uncracked concrete according to EAD 330499-00-0601, based on ETA-13/0721 of 18/05/2018 and certificate of constancy of performance of the construction product issued by notified product certification body.

PRODUCT INFORMATION

Packaging	300 ml standard cartridge	12 cartridges per box
		pallet: 75 boxes

Colour	Component A:	white
	Component B:	black
	Component A+B mixed:	light grey

Shelf Life	12 months from date of production
	All Sika AnchorFix® S cartridges have the expiry date printed on the label.

Storage Conditions	Stored properly in original, unopened, sealed and undamaged packaging in dry conditions at temperatures between +5 °C and +25 °C. Protect from direct sunlight.

Density	~1.7 kg/l (component A+B mixed)

TECHNICAL INFORMATION

Compressive Strength	~74 N/mm² (7 days, +20 °C)	(ASTM D 695)
Modulus of Elasticity in Compression	~3 100 N/mm² (7 days, +20 °C)	(ASTM D 695)
Tensile Strength in Flexure	~24 N/mm² (7 days, +20 °C)	(ASTM D 790)
Tensile Strength	~12 N/mm² (7 days, +20 °C)	(ASTM D 638)
Temperature Resistance		

Service Temperature	Long term	-40 °C min. / +50 °C max.	(ETAG 001, Part 5)
	Short term (1–2 hours)	+80 °C	

APPLICATION INFORMATION

Mixing Ratio	Component A : component B = 10 : 1 by volume
Layer Thickness	3 mm max.
Sag Flow	Non-sag, even overhead
Product Temperature	Sika AnchorFix® S must be at a temperature of between +5 °C and +40 °C for application.
Ambient Air Temperature	+5 °C min. / +40 °C max.
Dew Point	Beware of condensation. Substrate temperature during application must be at least 3 °C above dew point.
Substrate Temperature	+5 °C min. / +40 °C max.

Curing Time	Temperature	Open time - T_{gel}	Curing time - T_{cur}
	+40 °C	1.5 minutes	10 minutes
	+35 °C – +40 °C	1.5 minutes	15 minutes
	+30 °C – +35 °C	2 minutes	20 minutes
	+25 °C – +30 °C	3 minutes	30 minutes
	+20 °C – +25 °C	4 minutes	40 minutes
	+10 °C – +20 °C	6 minutes	80 minutes
	+5 °C – +10°C	12 minutes	120 minute
	+5 °C*	18 minutes	120 minutes

*Minimum cartridge temperature: +5 °C

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY

- Mortar and concrete must be at the required strength. No need to be 28 days old.
- Substrate strength (concrete, masonry, natural stone) must be verified.
- Pull-out tests must be carried out if the substrate strength is unknown.
- The anchor hole must always be clean, dry, free from oil and grease etc.
- Loose particles must be removed from the holes.
- Threaded rods and rebars have to be cleaned thoroughly from any oil, grease or any other substances and particles such as dirt etc.
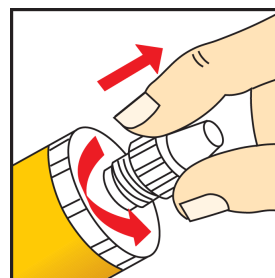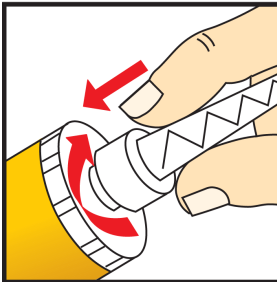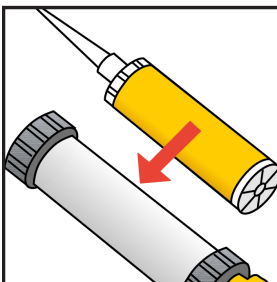

1. Unscrew the cap

MIXING

Getting the cartridge ready: 300 ml

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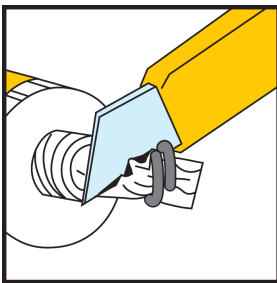
2. Cut the film

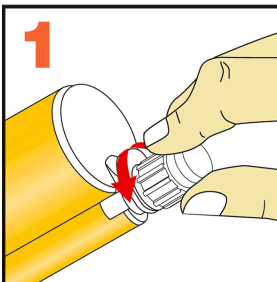3. Screw on the static mixer

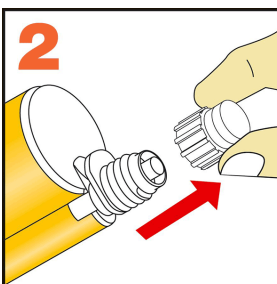4. Place the cartridge into the gun and start application

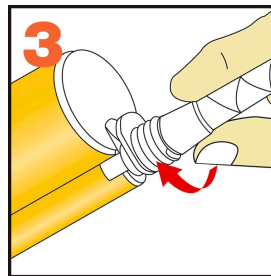## Getting the cartridge ready: 380 ml

1. Unscrew the cap

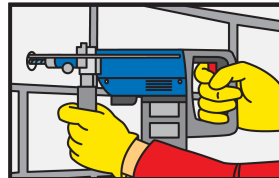2. Screw on the static mixer

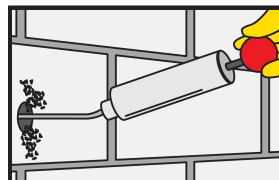3. Place the cartridge into the gun and start application

When the work is interrupted the static mixer can remain on the cartridge after the gun pressure has been relieved. If the resin has hardened in the nozzle when work is resumed, a new nozzle must be attached.

APPLICATION METHOD / TOOLS

Anchors in solid masonry/concrete

Drilling of hole with an electric drill to the diameter and depth required. Drill hole diameter must be in accordance with anchor size.

The drill hole must be cleaned with a blow pump or by compressed air, starting from the bottom of the hole. (at least 2×)
Important: use oil-free compressors.

The drill hole must be thoroughly cleaned with the special steel brush (brush at least 2×). The diameter of the brush must be larger than the diameter of the drill hole.
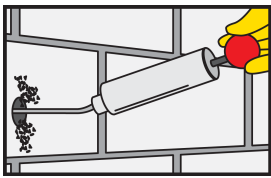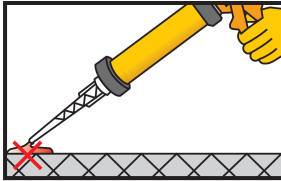
The drill hole must be cleaned with a blow pump or by compressed air, starting from the bottom of the hole (at least 2×).
Important: use oil-free compressors.

The drill hole must be thoroughly cleaned with the special steel brush (brush at least 2×). The diameter of the brush must be larger than the diameter of the drill hole.

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The drill hole must be cleaned with a blow pump or by compressed air, starting from the bottom of the hole (at least 2×). Important: use oil-free compressors.

Pump approx. twice until both parts come out uniformly. Do not use this material. Release the gun pressure and clean the cartridge opening with a cloth.
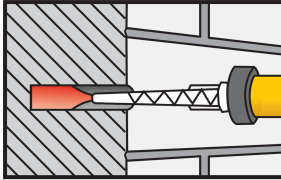
Inject the adhesive into the hole, starting from the bottom, while slowly drawing back the static mixer.In any case avoid entrapping air. For deep holes extension tubing can be used.
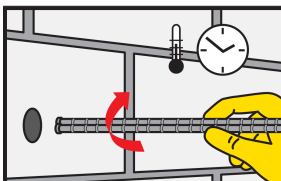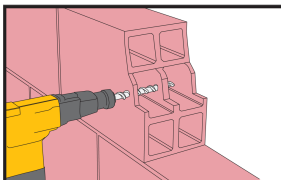
Insert the anchor with a rotary motion into the filled drill hole. Some adhesive must come out of the hole.
Important: the anchor must be placed within the open time.
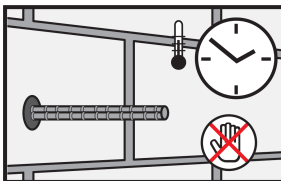
During the resin hardening time the anchor must not be moved or loaded. Wash tools immediately with Sika® Colma Cleaner. Wash hands and skin thoroughly with warm soap water.

Anchors in hollow blocks

Drilling of hole with an electric drill to the diameter and depth required. Drill hole diameter must be in accordance with anchor-and perforated sleeve size.
Note: with hollow material do not use rotary hammer drills.
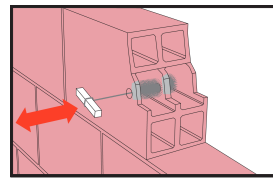
The drill hole must be thoroughly cleaned with a round brush (brush at least 1x). The diameter of the brush must be larger than the diameter of the drill hole.
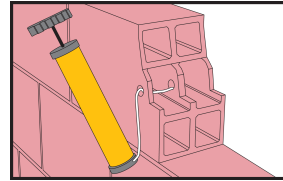
The drill hole must be cleaned after each cleaning step with a blow pump or by compressed air, starting from the bottom of the hole (pump at least 1×).
Important: use oil-free compressors.
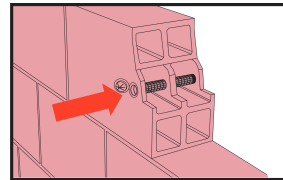
Insert perforated sleeve completely into the drill hole.
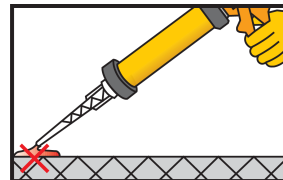
Pump approx. twice until both parts come out uniformly. Do not use this material. Release the gun pressure and clean the cartridge opening with a cloth.
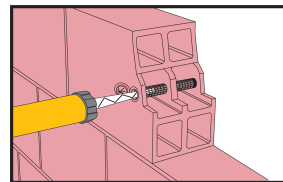
Inject the adhesive into the perforated sleeve, starting from the bottom, while slowly drawing back the static mixer. In any case avoid entrapping air.
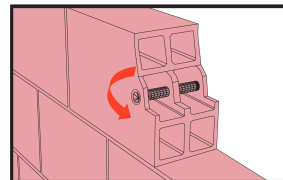
Close the cap from the perforated sleeve to avoid some escape of the resin during entering the steel rod.
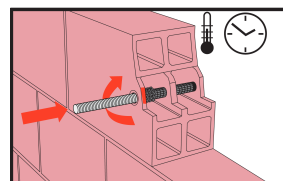
Insert the anchor with a rotary motion into the filled perforated sleeve. Use the adequate steel rod size.
Important: the anchor must be placed within the open time.
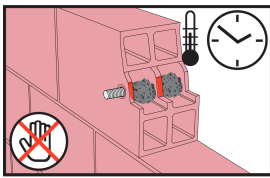
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During the resin hardening time the anchor must not be moved or loaded. Wash tools immediately with Sika® Colma Cleaner. Wash hands and skin thoroughly with warm soap water.

FURTHER INFORMATION

For specific information on design refer to the separate documentation provided:
Technical Documentation Sika AnchorFix® S 870 43 03

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.

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.

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.

LEGAL NOTES

SikaAnchorFixS-en-MY-(10-2020)-2-1.pdf

Product Data Sheet
Sika AnchorFix® S
October 2020, Version 02.01
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