

PRODUCT DATA SHEET

Sika AnchorFix®-2+

Anchoring adhesive for medium to high loads

DESCRIPTION

Sika AnchorFix®-2+ is a two-part epoxy acrylate anchoring adhesive, free of solvents and styrene, for applications in normal and moderate climate conditions.

USES

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

Sika AnchorFix®-2+ is used as a fast-curing anchoring adhesive for the following substrates:

- Cracked or uncracked concrete
- Solid masonry
- Steel
- Hard natural stone
- Solid rock

Sika AnchorFix®-2+ is used as a fast-curing anchoring adhesive for the following objects:

- Threaded rods
- Reinforcing steel
- Bolts and special fastening systems

Please note:

- The Product may only be used by experienced professionals.

FEATURES

- Fast curing
- Application with single-tube dispensers
- Can be used in hammer-drilled, dustless-drilled and diamond-core-drilled bore holes
- Very good load capacity
- ETA to EAD 330087-01-0601 for post installed rebar connections

- ETA based on working life of 50 years or 100 years
- ETA to EAD 330499-02-0601 for threaded rods, rebars and threaded sockets in concrete
- Tested fire performance for threaded rods, rebars and threaded sockets in concrete
- Tested fire performance for post-installed rebar
- Seismic testing C1 available
- Suitable for use in dry, wet, and flooded holes
- 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 — 1–3 points
- Complies with the requirements of AgBB including the LCI-values (June 2021) for use in the indoor environment.

CERTIFICATES AND TEST REPORTS

- CE marking and declaration of performance based on European Technical Assessment ETA 13/0779. ETA issued on the basis of EAD 330087-01-0601 Systems for post-installed rebar connections with mortar
- CE marking and declaration of performance based on European Technical Assessment ETA 14/0346. ETA issued on the basis of EAD 330499-02-0601 Bonded fasteners and bonded expansion fasteners for use in concrete
- Drinking Water System Components NSF/ANSI 61, Sika AnchorFix®, IAPMO R&T, Certificate No. K-8319

PRODUCT INFORMATION

Packaging	300 ml standard cartridge	12 cartridges per box 75 boxes per pallet
	350 ml side-by-side cartridge	12 cartridges per box 50 boxes per pallet
	550 ml standard cartridge	12 cartridges per box 50 boxes per pallet
	825 ml side-by-side cartridge	6 cartridges per box 48 boxes per pallet
	850 ml standard cartridge	8 cartridges per box 50 boxes per pallet
Refer to the current price list for available packaging variations.		
Colour	Part A	off white
	Part B	black
	Part A+B	grey
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 the packaging. Refer to the current Safety Data Sheet for information on safe handling and storage.	
Density	Part A	1.62 kg/L to 1.70 kg/L
	Part B	1.44 kg/L to 1.50 kg/L
	Part A+B mixed	1.60 kg/L to 1.68 kg/L
Volatile organic compound (VOC) content	39 g/l	(ASTM D2369)

TECHNICAL INFORMATION

Compressive strength	Cured 7 days at +20 °C	65 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)	
Temperature resistance	Long term	+50 °C	(EAD 330499-02-0601)	
	Short term (up to 2 hours)	+80 °C		
Service temperature	Time	Minimum	Maximum	(EAD 330499-02-0601)
	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	+30 °C		
	Minimum	+5 °C		
Ambient air temperature	Maximum	+30 °C		
	Minimum	+5 °C		
Dew point	Beware of condensation. Substrate temperature during application must be at least +3 °C above dew point.			
Substrate temperature	Maximum	+30 °C		
	Minimum	+5 °C		
Curing time	Cartridge temperature	Open time - T _{gel}	Substrate temperature	Curing time - T _{cur}
	+10 °C	30 minutes	-10 °C to -5 °C	24 hours
	+5 °C	20 minutes	-5 °C to 0 °C	300 minutes
	0 °C to +5 °C	15 minutes	0 °C to +5 °C	210 minutes
	+5 °C to +10 °C	10 minutes	+5 °C to +10 °C	145 minutes
	+10 °C to +15 °C	8 minutes	+10 °C to +15 °C	85 minutes
	+15 °C to +20 °C	6 minutes	+15 °C to +20 °C	75 minutes
	+20 °C to +25 °C	5 minutes	+20 °C to +25 °C	50 minutes
	+25 °C to +30 °C	4 minutes	+25 °C to +30 °C	40 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 DOCUMENTATION

For design details, refer to the following Technical Documentation: 870 43 12 Technical Documentation Sika AnchorFix®-2+ (09 / 2016) 1
For application details, refer to the following documentation : 850 42 07 Method Statement SikaAnchor-Fix® chemical anchoring

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 QUALITY

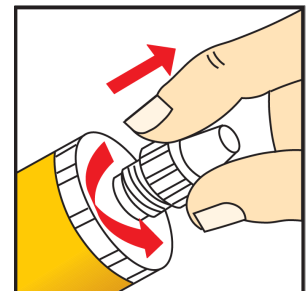
Mortar and concrete must be older than 28 days. Verify the substrate strength (concrete, masonry, natural stone). Perform pull-out tests if the substrate strength is unknown.
Make sure that the anchor hole is clean, dry, free from oil and grease. Remove loose particles from the anchor hole.

Clean threaded rods and reinforcement bars thoroughly. Remove oil, grease or any other substances and particles such as dirt.

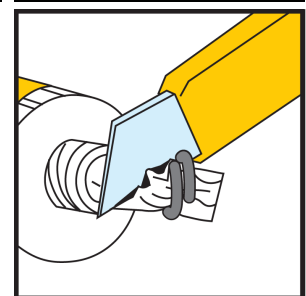
MIXING

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

1. Unscrew the cap



2. Cut the film



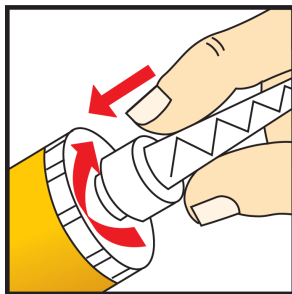
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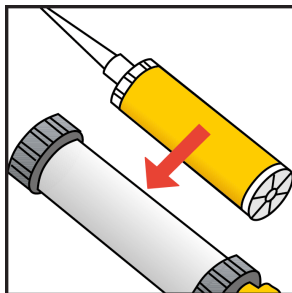
BUILDING TRUST



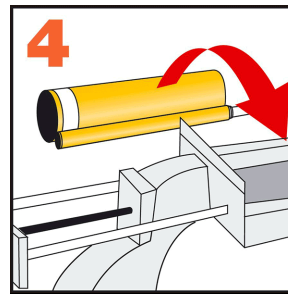
3. Screw on the static mixer



4. Place the cartridge into the dispenser and start application



4. Place the cartridge into the dispenser and start application



APPLICATION

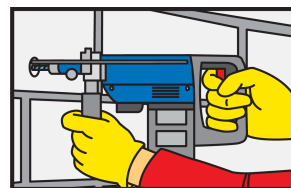
Test if the Product is suitable for the substrate

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.

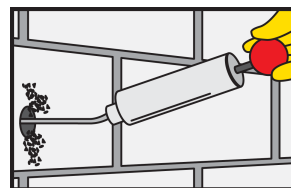
1. Test the Product's suitability in a sample area.

ANCHORS IN SOLID MASONRY OR CONCRETE

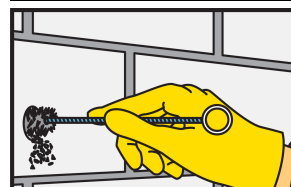
1. IMPORTANT Make sure that the drill hole diameter is in accordance with the anchor size. Drill a hole with an electric drill to the diameter and depth specified in the Technical Documentation listed in the section Further Information.



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.

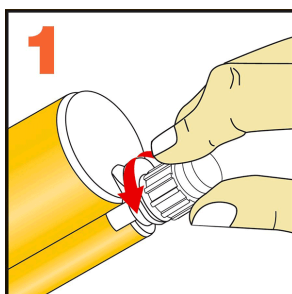


3. Thoroughly clean the drill hole with the hybrid brush. Note The diameter of the brush must be larger than the diameter of the drill hole and the hole must be cleaned a minimum of two times.

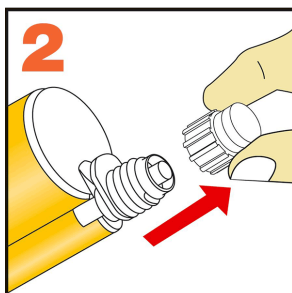


GETTING THE CARTRIDGE READY: 350 ML OR 825 ML

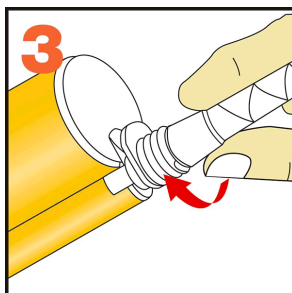
1. Unscrew the cap



2. Remove the cap



3. Screw on the static mixer



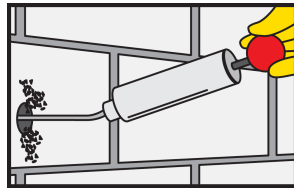
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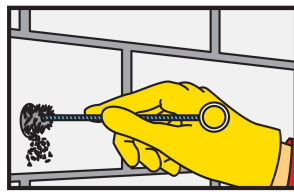
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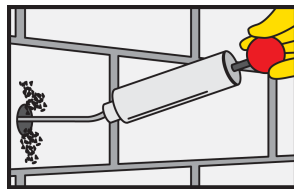
4. **IMPORTANT** Use oil-free compressors. Clean the drill hole with a blow pump or by compressed air, starting from the bottom of the hole. Note The hole must be cleaned a minimum of two times.



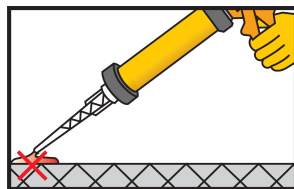
5. Thoroughly clean the drill hole with the hybrid brush. Note The diameter of the brush must be larger than the diameter of the drill hole and the hole must be cleaned a minimum of two times.



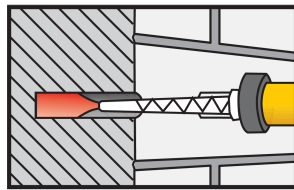
6. **IMPORTANT** Use oil-free compressors. Clean the drill hole with a blow pump or by compressed air, starting from the bottom of the hole. Note The hole must be cleaned a minimum of two times.



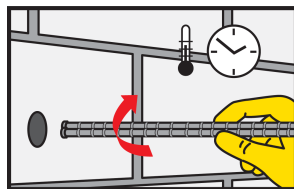
7. Pump the Product until both parts come out uniformly. Release the gun pressure and clean the cartridge nozzle with a cloth.



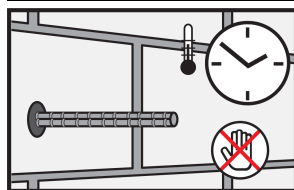
8. **IMPORTANT** Do not entrap air into the hole. Inject the Product into the hole starting from the bottom while slowly drawing back the static mixer. Note For deep holes extension tubing can be used.



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.



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 declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

LEGAL NOTES

Any information or suggestions for use concerning Sika's products, which we either in writing or orally have given buyers or end-users of the product, have been given in good faith based on our own experiences and based on approved praxis and the technological and scientific knowledge on the time of giving such suggestions and information, which are given without any type of guarantees, and which do not lead to any further responsibility from Sika Danmark A/S, besides what is stated in the sales agreement in question. The buyer or end-user should themselves investigate or otherwise make sure, that our products are suitable for the use in question and further make sure that the products are kept and used correct and in agreement with the published rules and considering the actual conditions in order to avoid damages or less satisfactory results. Any order is accepted and any deliverance is affected according to the general terms of sales and delivery from Sika Danmark A/S, which are considered known and accepted, and which could be handed out when asked for. Our catalogues are not up-dated automatically. The present product data sheet is only for use in Denmark. Values stated in the present product data sheet should be seen as recommended, unless stated otherwise.

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