

PRODUCT DATA SHEET

Sika AnchorFix® Standard

Fast-curing, styrene-free, polyester-based chemical anchor

PRODUCT DESCRIPTION

Sika AnchorFix® Standard is a solvent-free, styrene-free, two-part polyester anchoring adhesive. It is used for anchoring threaded rods in uncracked, dry or damp concrete, and hollow or solid masonry. Typical applications include chemically anchoring railings, satellite dishes, bike racks, television brackets, signs, and other fixtures which carry heavy loads. Sika AnchorFix® Standard incorporates unique EASY-FLOW technology enabling the twin bag system within the cartridge to be applied with a standard cartridge / skeleton gun.

USES

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

- Concrete.
- Hollow and solid masonry.
- Hard natural stone.
- Solid rock.

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

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

Typical applications include:

- Fixing wall ties.
- Anchoring bolts and screws into a wide variety of building substrates.
- Securing machinery into floors.
- Fastening studs and starter bars.

CHARACTERISTICS / ADVANTAGES

- EASY-FLOW technology allows for easy mixing of the twin bag system.
- Rapid curing.
- Standard sealant dispensers / guns can be used.
- Can be applied at low temperatures.
- Suitable for use in dry, wet, and flooded holes.
- Good load capacity.
- ETA to EAD 330499-02-0601 for bonded fasteners in concrete.
- ETA to EAD 330076-01-0604 for post-installed masonry connections.
- ETA based on working life of 50 years or 100 years.
- Thixotropic: non-sag in vertical and overhead applications.
- Styrene-free.
- Low wastage.
- Low odour.

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 26/0638. ETA issued on the basis of EAD 330499-02-0601 Bonded fasteners for use in concrete.
- CE marking and declaration of performance based on European Technical Assessment ETA 26/0639. ETA issued on the basis of EAD 330076-01-0604 Metal injection anchors for use in masonry.

PRODUCT INFORMATION

Packaging	300 ml standard cartridge	12 cartridges per box
Refer to the current price list for available packaging variations.		
Colour	Colour of the cured Product: Concrete	Colour of the cured Product: Stone
Part A	white	white
Part B	black	salmon
Parts A+B	light grey	beige
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	1.63 kg/L (component A+B mixed)	(ISO 1183-1)

TECHNICAL INFORMATION

Compressive Strength	Cured 24 hours at +20 °C Cured 7 days at +20 °C		~60 N/mm² ~70 N/mm²	(ASTM D695)		
Modulus of Elasticity in Compression	Cured 7 days at +20 °C		3500 N/mm²	(ASTM D695)		
Flexural Strength	Cured 7 days at +20 °C		28 N/mm²	(ASTM D790)		
Tensile Strength	Cured 24 hours at +20 °C Cured 7 days at +20 °C		~11.5 N/mm² ~12.2 N/mm²	(ASTM D638)		
Tensile Modulus of Elasticity	Cured 24 hours at +20 °C Cured 7 days at +20 °C		~3.4 GN/mm² ~4.5 GN/mm²	(ASTM D638)		
Service Temperature	Time	Minimum	Maximum	(EAD 330499-02-0601)		
	Long-term	-40 °C	+50 °C			
	Short-term (up to 2 hours)	-	+80 °C			
Design Considerations	Anchor Size (mm)	Hole Dia- meter (mm)	Hole Depth (mm)	Minimum Concrete Thickness h _{min} (mm)	Charateristic Tension Load N _{RK} (kN)	Fixings Per Unit
	8	10	64	100	16	85
	10	12	80	110	19.8	58
	12	14	96	126	33.2	38
	16	18	128	158	48.2	23
	20	22	160	190	69.4	12
	24	26	192	222	102.9	8

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 Minimum	+40 °C +5 °C
Ambient Air Temperature	Maximum Minimum	+40 °C -10 °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	-10 °C		
Curing Time	Cartridge temperature	Open time - T _{gel}	Substrate temperature	Curing time - T _{cur}
	Minimum +5 °C	~18 minutes	Minimum +5 °C	~145 minutes
	+5 °C to +10 °C	~10 minutes	+5 °C to +10 °C	~145 minutes
	+10 °C to +20 °C	~6 minutes	+10 °C to +20 °C	~85 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
	+30 °C	~4 minutes	+30 °C	~35 minutes

VALUE BASE

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

- Method Statement available.
- For design details, refer to the following technical documentation: 870 43 01 Technical Documentation.

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.

NOTES ON INSTALLATION

- Do NOT use on smooth non-porous substrates (e.g. metal, PVC, etc.).
- As the manufacturer cannot know all the uses their products may be put to, it is the user's responsibility to determine suitability for use. If in doubt, contact Sika® Technical Services department for advice.

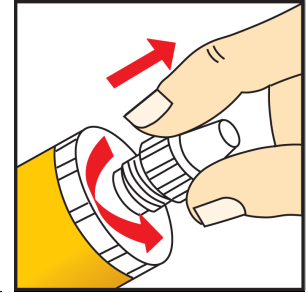
SUBSTRATE PREPARATION

- Mortar and concrete must be older than 28 days.
- Verify the substrate strength (i.e. 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.

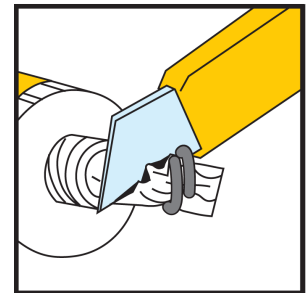
MIXING

GETTING THE CARTRIDGE READY

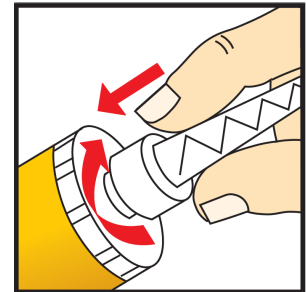
1. Unscrew the cap.



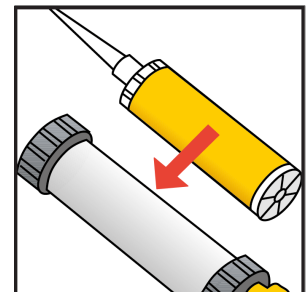
2. Cut the film if needed.



3. Screw on the static mixer.



4. Place the cartridge into the dispenser 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

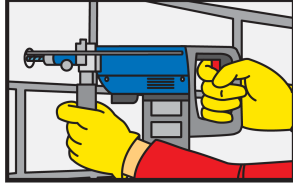
Test if the Product is suitable for the substrate

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.

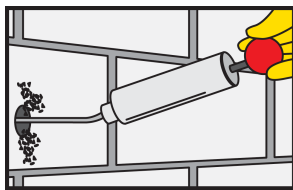
- Test the Product's suitability in a sample area.

ANCHORS IN SOLID MASONRY OR CONCRETE

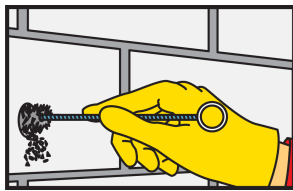
1. IMPORTANT Make sure that the drill hole diameter is in accordance with the anchor size. Drill a hole with an electric drill to the diameter and depth specified in the Technical Documentation listed in the section "Further Information".



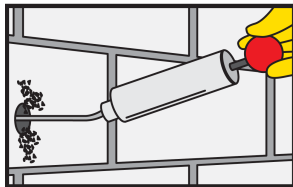
2. IMPORTANT Use oil-free compressors. Clean the drill hole with a blow pump or by compressed air, starting from the bottom of the hole. **NOTE:** The hole must be cleaned a minimum of two times.



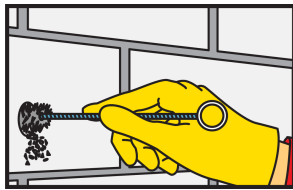
3. Thoroughly clean the drill hole with the hybrid brush. **NOTE:** The diameter of the brush must be larger than the diameter of the drill hole and the hole must be cleaned a minimum of two times.



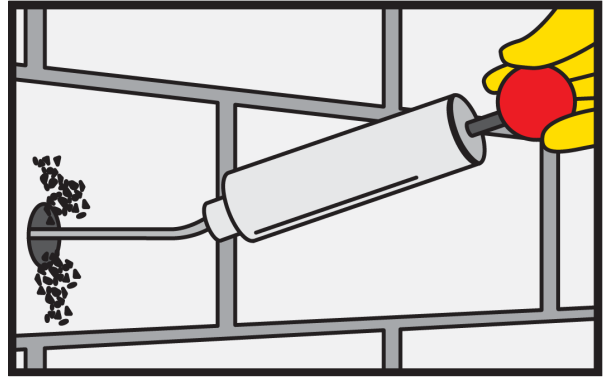
4. IMPORTANT Use oil-free compressors. Clean the drill hole with a blow pump or by compressed air, starting from the bottom of the hole. **NOTE:** The hole must be cleaned a minimum of two times.



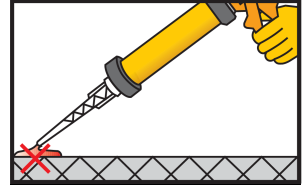
5. Thoroughly clean the drill hole with the hybrid brush. **NOTE:** The diameter of the brush must be larger than the diameter of the drill hole and the hole must be cleaned a minimum of two times.



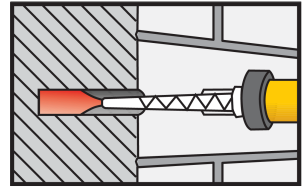
6. IMPORTANT Use oil-free compressors. Clean the drill hole with a blow pump or by compressed air, starting from the bottom of the hole. **NOTE:** The hole must be cleaned a minimum of two times.



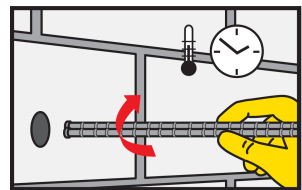
7. Pump the Product until both parts come out uniformly. Release the gun pressure and clean the cartridge nozzle with a cloth.



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.

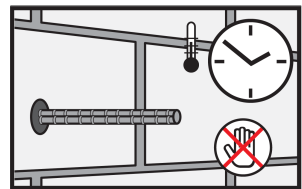


9. IMPORTANT The anchor must be placed within the open time. Insert the anchor with a rotary motion into the filled drill hole.



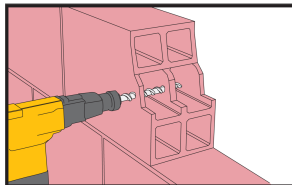
NOTE: Some adhesive must come out of the hole.

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

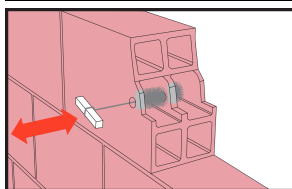


ANCHORS IN HOLLOW BLOCKS

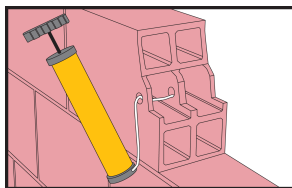
1. IMPORTANT Do NOT use rotary hammer drills. Drill a hole with an electric drill to the diameter and depth specified in the Technical Documentation listed in the section "Further Information". The drill hole diameter must be in accordance with the anchor and the perforated sleeve size.



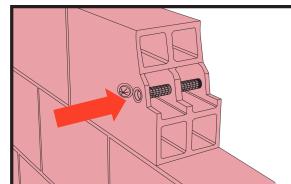
2. Clean, at least once, the drill hole with a hybrid brush. **NOTE:** The diameter of the brush must be larger than the diameter of the drill hole.



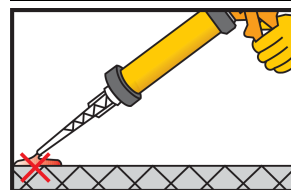
3. IMPORTANT Use oil free compressors. After cleaning the drill hole with the brush, clean the drill hole each time with a blow pump.



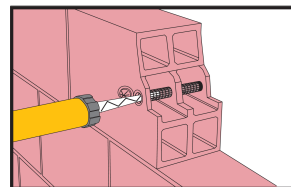
4. Insert the perforated sleeve completely into the drill hole.



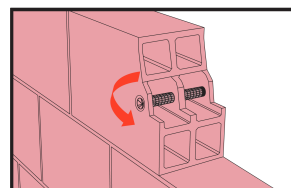
5. Pump the Product until both parts come out uniformly. Discard this material. Release the gun pressure and clean the cartridge nozzle with a cloth.



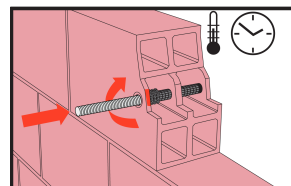
6. IMPORTANT Do NOT entrap air into the hole. Inject the Product into the perforated sleeve starting from the bottom, while slowly drawing back the static mixer.



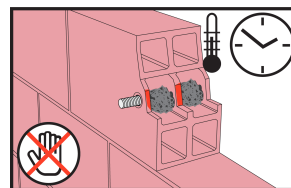
7. Close the cap of the perforated sleeve to prevent adhesive from escaping when inserting the steel rod.



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® Thinner C 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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