

# PRODUCT DATA SHEET

## Sika AnchorFix®-1 Q

### POLYESTER FAST CURING CHEMICAL ANCHORING ADHESIVE

#### DESCRIPTION

Sika AnchorFix®-1 Q is a polyester resin based, 2-part, thixotropic, fast curing anchoring adhesive for anchoring threaded rods and reinforcing bars.

#### USES

Sika AnchorFix®-1 Q may only be used by experienced professionals.

Fast curing anchoring adhesive for fixing of non-expanding anchors in the following:

##### Structural work

Rebar / steel reinforcement anchoring in new and refurbishment works

Threaded rods

Bolts and special fastening / fixing systems

##### Metalwork, carpentry

Handrails, balustrades and supports

Railings

Window and door frames

##### Substrates

Concrete (uncracked)

Hollow and solid masonry

Wood

Natural and reconstituted stone

Solid rock

#### CHARACTERISTICS / ADVANTAGES

- Fast curing
- Standard guns can be used
- Can be used at low temperatures
- High load capacity
- ETA for anchoring in uncracked concrete
- Non-sag, vertical & overhead
- Styrene-free
- Low wastage

#### APPROVALS / CERTIFICATES

- European Technical Assessment ETA 17/0637 based on ETAG 001 Part 1 - Anchors in general and Part 5 - Bonded anchors, used as European Assessment Document (EAD)
- CE Marking and Declaration of Performance to ETA 17/0637 - Bonded injection type anchor for use in cracked concrete

#### PRODUCT INFORMATION

<b>Composition</b>	Polyester resin	
<b>Packaging</b>	150 ml standard cartridge	20 cartridges per box pallet: 75 boxes
	300 ml standard cartridge	12 cartridges per box pallet: 75 boxes
	550 ml standard cartridge	12 cartridges per box pallet: 50 boxes
Refer to current price list for packaging variations.		

Colour	Part A	White
	Part B	Black
	Part A+B mixed	Light grey
	Stone colour:	
	Part A	White
	Part B	Salmon
	Part A+B mixed	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 +10 °C and +25 °C. Always refer to packaging.	
Density	~1,63 kg/l (component) A+B mixed	~1,63 kg/l

## TECHNICAL INFORMATION

Temperature Resistance	Long term	+50 °C
	Short term (1–2 hours)	+80 °C

## SYSTEMS

System Structure	Ancillary products: <ul style="list-style-type: none"> <li>▪ Sika AnchorFix® Cleaning Pump</li> <li>▪ Sika AnchorFix® Flexible Extensions</li> <li>▪ Sika AnchorFix® Hole Cleaning Brushes Hybrid</li> <li>▪ Sika AnchorFix® Hole Cleaning Brushes Steel</li> <li>▪ Sika AnchorFix® Static Mixers -Nozzles</li> <li>▪ Sika AnchorFix® Straight Extensions</li> <li>▪ Sika AnchorFix® Perforated Sleeves</li> </ul>
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## APPLICATION INFORMATION

Mixing Ratio	Part A : Part B = 10 : 1 by volume		
Layer Thickness	3 mm max.		
Sag Flow	Non-sag, including overhead		
Product Temperature	+10 °C min. / +40 °C max.		
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	<b>Temperature</b>	<b>Open time - T<sub>gel</sub></b>	<b>Curing time - T<sub>cur</sub></b>
	+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 minutes

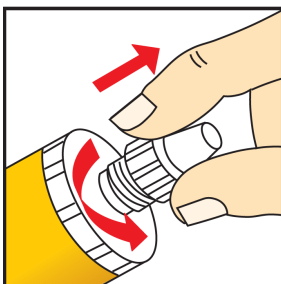
# APPLICATION INSTRUCTIONS

## SUBSTRATE QUALITY

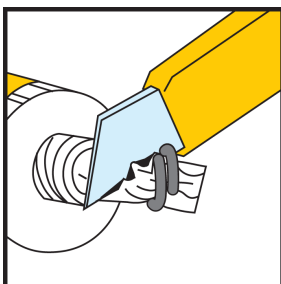
- Mortar and concrete must be at the required design strength.
- Substrate tensile / compressive strengths (concrete, masonry, natural stone) must be confirmed by testing.
- The anchor hole must always be clean, dry, free from oil and grease etc.
- Loose particles must be removed from the holes.
- Threaded rods and rebar's must be cleaned thoroughly and free from dirt, oil, grease, corrosion products or any other substances and particles which could affect adhesion.

## MIXING

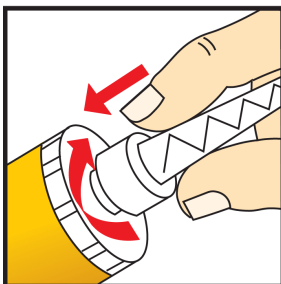
### Preparing cartridge: 150 / 300 ml / 550 ml



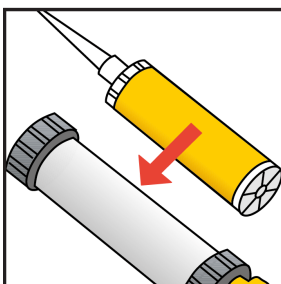
1. Unscrew and remove the cap



2. Cut the end off the protective film



3. Screw on the static mixer

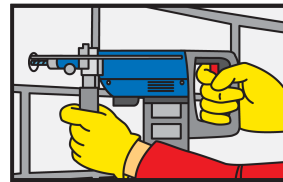


4. Place the cartridge into the application gun ready for use

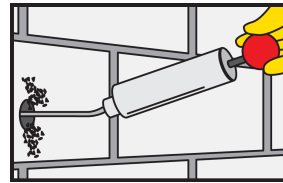
When the work is interrupted the static mixer can remain on the cartridge after the gun pressure has been released. If the resin has hardened in the nozzle when work is resumed, a new nozzle must be attached.

## APPLICATION METHOD / TOOLS

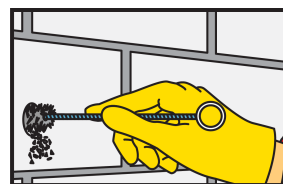
### Anchors in concrete



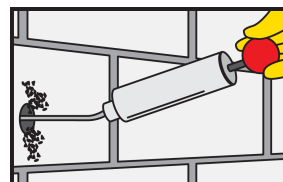
1. Drill hole with an electric drill to the diameter and depth required. Drill hole diameter must be in accordance with anchor size



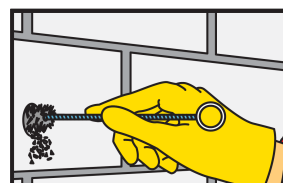
2. The drill hole must be cleaned with oil free compressed air using an air lance, pressure: 6 Bar (90 psi). Start from the bottom of the hole and clean minimum 2 x until return air stream is free of dust



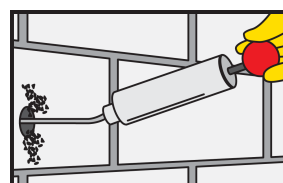
3. The drill hole must be thoroughly cleaned with the special steel brush (brush at least 2x). The diameter of the brush must be larger than the diameter of the drill hole



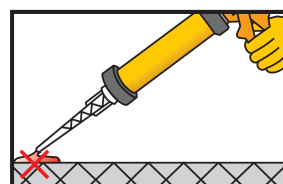
4. The drill hole must be cleaned again as stage 2



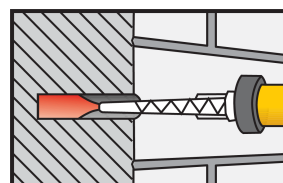
5. The drill hole must be thoroughly cleaned again as stage 3



6. The drill hole must be cleaned again as stage 2 & 4



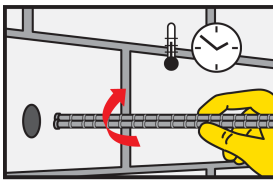
7. Pump gun at least 2 x until both parts are extruded as a one consistent colour. Do not use this material. Release the gun pressure and clean the static mixer opening with a cloth



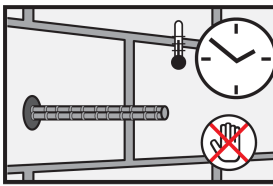
8. Inject the adhesive into the drill hole, starting from the bottom and slowly pull out the static mixer while extruding the resin into the hole. Avoid entrapping air. For deep holes use extension tubing

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9. Insert the anchor with a rotary motion into the filled drill hole within the adhesive open time. Some of the adhesive must flow out of the hole



10. During the resin hardening time the anchor must not be moved or loaded

Important Note: Anchors in hollow blocks: Use Sika AnchorFix®-1.

### CLEANING OF EQUIPMENT

Clean tools and application equipment with Sika® Colma Cleaner immediately after use. Hardened material can only be mechanically removed.

### FURTHER INFORMATION

- For specific information on design refer to: Technical Documentation Sika AnchorFix®-1 Q Ref: 870 43 16

### IMPORTANT CONSIDERATIONS

- Natural / reconstituted stone and solid rock properties vary particular with regard to strength, composition and porosity. For each application, the suitability of Sika AnchorFix®-1 Q must be tested for bond strength, surface staining and discoloration by first applying the product to a sample area before full project application.

## 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.

## 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 the exact product data and uses.

## 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

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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