

PRODUCT DATA SHEET

Sika AnchorFix[®]-3030

Epoxy high performance chemical anchoring adhesive

PRODUCT DESCRIPTION

Sika AnchorFix[®]-3030 is an epoxy resin based, two-part, thixotropic, high performance anchoring adhesive for anchoring threaded rods and reinforcing bars in both cracked and uncracked dry or damp concrete.

USES

Sika AnchorFix[®]-3030 may only be used by experienced professionals.

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 and carpentry

- Handrails, balustrades and supports
- Railings
- Window and door frames

Substrates

- Concrete (cracked and uncracked)
- Hollow and solid masonry
- Wood
- Natural and reconstituted stone
- Solid rock

CHARACTERISTICS / ADVANTAGES

- Long open-time.
- Can be used in damp concrete.
- High load capacity.
- ETA for anchoring in cracked concrete.
- ETA for post installed rebar connections.
- Seismic tested (C1 & C2).
- Suitable for contact with drinking water.
- Fire resistant.
- Styrene-free.
- Good adhesion to substrates.
- Shrinkage-free hardening.
- Low emissions.
- Low wastage.

ENVIRONMENTAL INFORMATION

- Conformity with LEED v2009 IEQc 4.1: Low-Emitting Materials - Adhesives and Sealants, Report No. G23807C_04.

APPROVALS / STANDARDS

- CE Marking and Declaration of Performance to 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 17/0694 - Bonded injection type anchor for use in cracked and uncracked concrete.
- Fire Evaluation of Post Installed Rebar Connections CEN EN 1991-1-2, Sika AnchorFix[®]-3030, CSTB, Test report MRF 26072904/C.

PRODUCT INFORMATION

| | | |
|--------------------|---|---|
| Chemical Base | Epoxy resin | |
| Packaging | 385 ml dual cartridge | 12 cartridges per box Pallet: 70 boxes with 840 cartridges |
| | 585 ml dual cartridge | 12 cartridges per box Pallet: 44 boxes with 528 cartridges |
| | Refer to current price list for packaging variations. | |
| Shelf Life | 24 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. | |
| Colour | Part A | Off white |
| | Part B | Grey |
| | A+B mixed | Light grey |
| Density | A+B mixed | ~1,5 kg/l |

TECHNICAL INFORMATION

| | | |
|-------------------------------|--|--|
| Compressive Strength | ~95 N/mm ² (7 days, +20 °C) | (ASTM D 695) |
| Flexural Strength | ~45 N/mm ² (7 days, +20 °C) | (ASTM D 790) |
| Tensile Strength | ~23 N/mm ² (7 days, +20 °C) | (ASTM D 638) |
| Tensile Modulus of Elasticity | ~5500 N/mm ² (7 days, +20 °C) | (ASTM D 638) |
| Service Temperature | Long term | -40 °C min. / +50 °C max. (ETAG 001, Part 5) |
| | Short term (1–2 hours) | +70 °C |

SYSTEM INFORMATION

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

APPLICATION INFORMATION

| | |
|-------------------------|---|
| Mixing Ratio | Part A : Part B = 3 : 1 by volume |
| Layer Thickness | ~8 mm maximum |
| Sag Flow | Non-sag, including overhead |
| Product Temperature | +10 °C minimum / +40 °C maximum |
| Ambient Air Temperature | +5 °C minimum / +40 °C maximum |
| Dew Point | Beware of condensation. Substrate temperature during application must be at least +3 °C above dew point. |
| Substrate Temperature | +5 °C minimum / +40 °C maximum |

Curing Time

| Temperature | Open time - T _{gel} | Curing time - T _{cur} |
|------------------|------------------------------|--------------------------------|
| +35 °C to +40 °C | 6 minutes | 2 hours |
| +30 °C to +35 °C | 8 minutes | 4 hours |
| +25 °C to +30 °C | 12 minutes | 6 hours |
| +20 °C to +25 °C | 18 minutes | 8 hours |
| +15 °C to +20 °C | 25 minutes | 12 hours |
| +10 °C to +15 °C | 40 minutes | 18 hours |
| +5 °C to +10 °C* | 150 minutes | 24 hours |
| +5 °C* | 300 minutes | 24 hours |

* Minimum cartridge temperature: +10 °C

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

For specific information on design refer to: Technical Documentation Sika AnchorFix®-3030 870 43 18.

LIMITATIONS

Natural / reconstituted stone and solid rock properties vary particular with regard to strength, composition and porosity. For each application, the suitability of Sika AnchorFix®-3030 must be tested for bond strength, surface staining and discoloration by first applying the product to a sample area before full project application.

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.

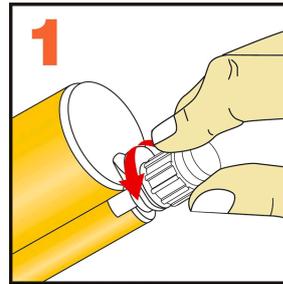
APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY

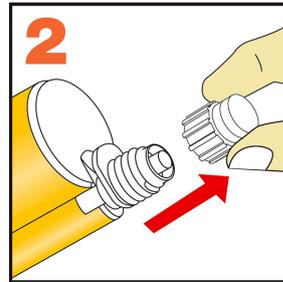
Mortar and concrete must be at the required design strength.
Substrate tensile / compressive strengths (concrete, masonry, natural stone) must be confirmed by testing. The anchor hole must always be clean, dry, free from oil, grease, etc.
Loose particles must be removed from the holes.
Threaded rods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

MIXING

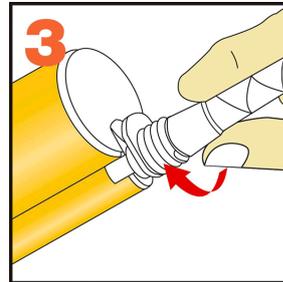
Preparing the cartridge: 385 and 585 ml



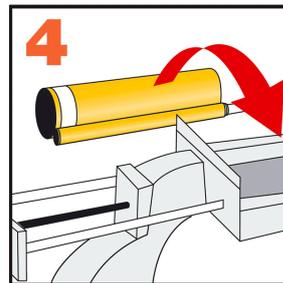
1. Unscrew the cap.



2. Remove the cap.



3. Screw on the static mixer.



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

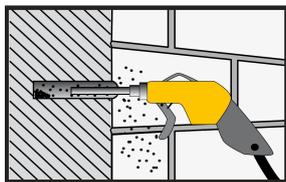
When the work is interrupted, the static mixer nozzle can remain on the cartridge after the gun pressure has been released. If the resin has hardened in the nozzle when work is resumed, a new nozzle must be attached.

APPLICATION METHOD / TOOLS

Anchors in solid masonry / concrete



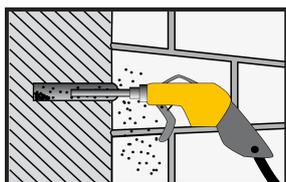
1. Drill hole with an electric drill to the diameter and depth required. Drill hole diameter must be in accordance with anchor size.



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 at least twice until the return air stream is free of dust.



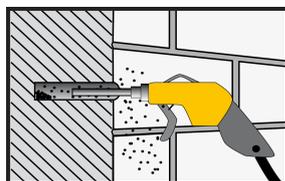
3. The drill hole must be thoroughly cleaned with the special steel brush (brush at least twice). The diameter of the brush must be larger than the diameter of the drill hole.



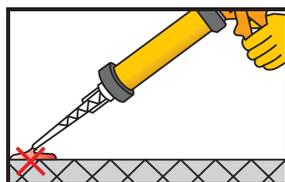
4. The drill hole must be cleaned again as per Stage 2.



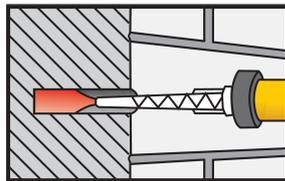
5. The drill hole must be thoroughly cleaned again as per Stage 3.



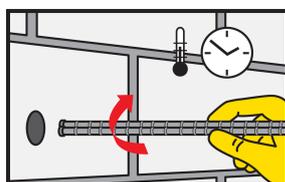
6. The drill hole must be cleaned again as per Stages 2 and 4.



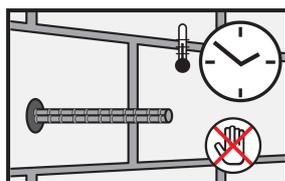
7. Pump gun at least twice until both parts are extruded as one consistent colour. Do not use this material. Release the gun pressure and clean the static mixer opening with a cloth.



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.



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 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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