

## Technical Data Sheet

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**Properties:**

AKEPOX® 4050 Anti-Slip Mix is a gel-like, solvent-free, two-component adhesive based on an epoxy resin containing a modified polyamine hardener. The product characterized by the following properties:

- easy dosing and mixing by use of cartridge system
- easy spreading because of its smooth consistency
- can be applied without flute on the stone
- very low shrinkage during hardening
- very weather resistant
- very high stability in contact with alkalis and therefore very suitable for bondings with concrete
- non-slipping characteristic (R11) despite closed surface, enabling easy cleaning
- good adhesion on mineral surfaces and highly non-abrasive
- no tendency towards crystallization, therefore no problems with – storage and good safety during processing
- AKEPOX® 4050 Anti Slip Mix phosphorescent meets the minimum luminance of sub-classification A according to DIN 67510-4:2008-02
- classification according to the Berufsgenossenschaft der Bauwirtschaft (Accident Prevention and Insurance Association of the German Building Industry): GISCODE: RE 01

**Application Area:**

AKEPOX® 4050 Anti-Slip Mix creates a very non-slipping surface in the form of a stripe, edge and/or ornament on mineral surfaces on natural stone (marble, lime stone, granite, concrete ashlar or ceramic tiles) on stairs in entrance areas that are exposed to water and/or sloping. AKEPOX® 4050 Anti-Slip Mix is suitable for silicate bounded natural stone (e.g. granite) indoor and outdoor, on limestone and marble only indoor. Due to luminescence properties the safety is increased in case of electrical power failure in areas which are artificially illuminated.

**Instructions for Use:**

- without mixing nozzle: dosing apparatus only
  - with mixing nozzle: dosing and mixing apparatus at the same time
1. Thoroughly clean and completely dry surfaces. Mark off the area to be bonded with AKEMI® Adhesive Tape and thoroughly roughen the surface.
  2. Remove the clasp from the cartridge. Insert the cartridge into the gun, working the grip until material emerges from both openings. Attach a mixing nozzle.
  3. When using without mixing nozzle, thoroughly mix both components.
  4. Apply a layer of the product at a thickness minimum 1 mm and max. 2 mm. Remove excess material with a spatula flush to the adhesive tape. Remove the adhesive tape latest 10 minutes after application of the product.
  5. The mixture remains workable for approx. 100 - 120 min (20°C/68°F). After approx. 3 - 5 hrs (20°C/68°F) the surfaces are dry but optimal curing takes 12 - 16 hrs (20°C/68°F). Foot traffic may be resumed after 8 - 10 hours. Maximum stability after 7 days.
  6. Tools can be cleaned with AKEMI® Nitro Dilution.
  7. Warmth accelerates and cold retards the hardening process.
  8. Empty the container fully before disposing of it.

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### Special Notes:

- The optimal mechanical and chemical properties can only be attained by adhering to the exact mixing proportions; excess adhesive or hardener has the effect of a plasticizer.
- Use AKEMI® Liquid Glove to protect your hands.
- The resin is no longer to be used if it has already thickened or is jelling.
- The product is not to be used at temperatures below 15°C because it will not sufficiently harden.
- The hardened resin can no longer be removed by means of solvents. This can only be achieved mechanically or by applying higher temperatures (> 200°C).
- If the resin has been correctly worked it presents no hazard to health when the hardening process is completed.
- Use only original AKEMI® Mixing Nozzle.
- Acid-containing products (e.g. AKEMI® Concrete Film Remover and AKEMI® Rust Remover) lighten the colour of the hardened Anti-Slip Mix layer. This particularly applies to the colour anthracite.
- Due to weathering of limestone in outdoor areas, a reduction of adhesion of the product is possible.
- Surfaces with a white film caused by the penetration of humidity during the hardening process can be cleaned with AKEMI® Cleaner I and a solvent resistant brush.
- The hardened product is resistant against petrol and diluted, inorganic acids.

### Technical Data:

1. Colour: anthracite, yellow, white, red-brown, beige, grey, phosphorescent
2. Density: approx. 1.92 g/cm<sup>3</sup>
3. Working time:
  - a) mixture of 100 g component A + 50 g of component B:
 

at 20°C:	100 – 120 minutes
at 30°C:	45 - 50 minutes
at 40°C:	20 – 25 minutes
  - b) at 20°C and varying amounts:
 

20 g comp. A + 10 g comp. B:	130 – 150 minutes
50 g comp. A + 25 g comp. B:	110 – 130 minutes
100 g comp. A + 50 g comp. B:	100 – 120 minutes
300 g comp. A + 150 g comp. B:	85 – 95 minutes
4. Theoretical coverage:
 

<u>breadth of stripes</u>	<u>height of stripes</u>	<u>running meter/cartridge</u>
10 mm	1 mm	38 m
20 mm	1 mm	19 m
50 mm	1 mm	7.6 m
10 mm	2 mm	19 m
20 mm	2 mm	9.5 m
50 mm	2 mm	3.8 m

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- Storage:** 2 years approx. under cool conditions in the firmly closed original container.
- Health & Safety:** Read Material Safety Data Sheet before handling or using this product.
- Important Notice:** The above information is based on the latest stage of development and application technology. Due to a multiplicity of different influencing factors, this information – as well as other oral or written technical advises – must be considered as non-binding hints. The user is obliged in each particular case to conduct performance tests, including but not limited to trials of the product, in an inconspicuous area or fabrication of a sample piece.