

## Technical Data Sheet

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- Properties:** AKEPOX® 4050 Anti-Slip Mix is a smooth, corundum-containing, solvent-free, two-component paste based epoxy resins containing a modified polyamine hardener. The product is characterized by the following properties:
- easy dosing and mixing by use of cartridge system
  - easy workability due to its smooth consistency
  - can be applied without flute on the stone
  - very low shrinkage during hardening
  - very good resistance to weathering
  - very high stability in contact with alkalis, therefore very suitable for concrete surfaces
  - excellent non-slipping characteristic (R11) despite closed surface, enabling easy cleaning
  - good adhesion on mineral surfaces and high stability towards abrasion
  - no tendency towards crystallization, therefore good storage stability and good processing security
- 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, surfaces exposed to water, in entrance areas of buildings and on inclined surfaces. Furthermore, AKEPOX® 4050 Anti-Slip Mix is suitable for optical contrast in public spaces for barrier-free use on surfaces or stairs. AKEPOX® 4050 Anti-Slip Mix can be used on silicate bound natural stone (e.g. granite), concrete ashlar and ceramic indoors and outdoors, on limestone and marble only indoors.
- 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 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, if required.
  3. In case no mixing nozzle is used, thoroughly mix both components.
  4. The mixed product should be applied at least 1 mm and maximum 2 mm. An optimum layer thickness of 1 mm approx. is achieved when using the Marking Adhesive Tape for AKEPOX® 4050 Anti-Slip Mix. 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 minutes (20°C/68°F). After approx. 3 - 5 hours (20°C/68°F) the surfaces are dry, after 12 - 16 hours (20°C/68°F) they can be walked on. Maximum stability after 7 days (20°C/68°F).
  6. Tools can be cleaned with AKEMI® Nitro Dilution.
  7. Warmth accelerates, cold retards the hardening process.
- 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.
  - The resin is no longer to be used if it has already thickened or is jellying.

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- The product must 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 nozzles.
- 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. Component A + B:
 

Colour:	anthracite, yellow, white, beige, grey,
Density:	approx. 1.92 g/cm <sup>3</sup>
  
2. Working time:
 

	at 20°C: 100 - 120 minutes
a) mixture of 100 g component A + 50 g of component B:	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
  
3. 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

The theoretical coverage is reduced by material loss during work and use of several mixing nozzles.

#### 4. Accessories

- Marking Adhesive Tape for AKEPOX® 4050 Anti-Slip Mix (thickness 1 mm, width 20 mm, length 100 m on a roll)
- Diamond Grinding Pad, grain 60

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5. Theoretical determination of the light reference values by assigning the AKEPOX® 4050 colours to the RAL CLASSIC colours

AKEPOX® 4050 colour	Corresponds approx. to RAL colour number	Name of RAL colour	Light reference value
beige	1015	light ivory	67
yellow	1023	traffic yellow	54
grey	7042	traffic grey A	30
anthracite	9005	deep black	4
white	9016	traffic white	87

**Storage:**

If stored in dry and cool condition (5-25°C/41-77°F) in its closed original container at least 2 years from production.

**Health & Safety:**

Read 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.

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