

**Technical Data Sheet**

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**Properties:** AKEMI® AKS System Filler is a multi-component stone filler based on unsaturated polyester resins dissolved in styrene. Special about this product is the 1:1 mixing ratio of component I and component II, which therefore ensures a secure processing. The special liquid hardener is mixed with the component I. This mixture (component I and hardener) is stable for several days depending on the temperature; by mixing component I and component II in equal parts of weight fast hardening takes place.

The product is characterized by the following qualities:

- easy processing - also mechanical processing possible - by dosing in a ratio of 1:1
- different consistencies for different problems
- very fast hardening also in thin layers (10 - 15 minutes), by means of heat the hardening time can be reduced to 5 - 10 minutes
- very fast surface drying
- very easy to grind and polish
- very good adhesion on dry natural stone

**Application Area:** AKEMI® AKS System Filler is mainly used for working natural stone slabs in polishing line plants for filling holes and fissures. The product hardens very well in thin layers and at low temperatures due to its high reactivity. A good surface drying is reached already after a short period of time, thus polishing segments do not smear or clog.

- Instructions for Use:**
1. The surface to be treated must be clean, dry and free from dust.
  2. Add 6% AKEMI® Special Hardener Liquid to component I and mix thoroughly; this mixture can be stored for at least 3 days at approx. 20°C.
  3. The mixture of component I (incl. hardener) and component II are mixed in a ratio of 1:1 according to weight; the mixture remains workable approx. 1 - 5 minutes (20°C).
  4. After 10 to 15 minutes (20°C), the treated slabs can be ground and polished.
  5. The hardening process is accelerated by heat and delayed by cold.
  6. Tools can be cleaned with AKEMI® Nitro-Thinner.

- Special Notes:**
- For professional use only.
  - For economical working, we recommend dosing with our Dosing Apparatus DSK II or application with our Automatic Filling Machine SPK or SPG.
  - Use afin® Liquid Glove to protect your hands.
  - Poor adhesion on humid surfaces. Moderate adhesion on fresh, alkaline building materials (e.g. concrete, concrete bricks).
  - Once hardened, the filler can no longer be removed by solvents. Removal is only possible mechanically or by higher temperatures (> 200°C).
  - Being worked properly, the hardened filler is generally recognized as not injurious to health.
  - The hardened filler tends to yellow.
  - Within the EU: subject to the self-service prohibition regulation and shall only be sold by specialized sales outlets.
  - For proper waste disposal the container must be completely emptied.
  - Recycling in accordance with the guidelines of EU Decision 97/129 EC on the Packaging Directive 94/62/EC.

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<b>Technical Data:</b>	Colour: Component I:	ivory
	Component II:	different colours
	Density: Component I:	1.90 - 2.00 g/cm <sup>3</sup>
	Component II:	1.60 - 1.70 g/cm <sup>3</sup>

Working time in seconds: addition of hardener into component I, mixing of component I and II in a ratio of 1:1 according to weight:

At 20°C: 2% of hardener:	180 - 240
4% of hardener:	150 - 180
6% of hardener:	120 - 150
8% of hardener:	90 - 120

**Storage:** If stored in dry and cool condition (5-25°C/41-77°F) in its closed original container at least 12 months 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.