

Technical Instruction Sheet

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Characteristics:

AKEMI Stone Strengthener E is a very fluid, solvent-containing, 2-component product based on an epoxy system. The product is distinguished by the following properties:

- have highly penetrative qualities, also at grinded surfaces due to its low viscosity
- colourless transparent, therefore also suitable for natural stone of light colour
- very little tendency to yellow through sunlight
- weather resistant
- excellent grinding and polishing properties
- a very good alkali-stability, thus it is very well suited for bond concrete
- increases the firmness and improves the quality of natural stone surfaces
- depending on the stone, the colour of the stone is enhanced (moderate up to strong)

Field of Application:

Stone Strengthener E solidifies soft, little abrasion-proof natural and artificial stones (e.g. limestone and concrete slabs) also with sandy and clayey places. In addition, the product is suitable for closing small holes, fine fissures and hair cracks.

Instructions for Use:

1. The surface to be treated must be clean and completely dry. Ideal temperature 15-25°C.
2. Mix two parts of component A with one part of component B (weight or volume) and apply until the mixture is free of streaks.
3. Apply the mixture with a brush, roll or spraying device on the whole surface to be treated. In case of strongly absorbent stones apply several times until saturation is achieved.
4. Use an absorptive cloth to take up residuary material.
5. Fissures not yet filled, can be filled with the residuary material using a spatula after solvent evaporation.
6. The product has a processing time of approx. 40 – 60 minutes (20°C); after 12 – 24 hours, treated parts can be further processed (grinding, polishing).
7. To enhance the colour of polished surfaces, the residuary material must be removed after approx. 20 – 30 minutes after the last application, eventually with AKEMI Universal-Dilution and polished afterwards. If only hair cracks have to be filled in polished surfaces, remove the residuary material with a sharp blade after approx. 4 – 5 hours after the last application.
8. The hardening process is accelerated by heat and delayed by cold.
9. Tools can be cleaned with AKEMI Nitro-Dilution.
10. In order to ensure orderly waste disposal, the container must be emptied completely.

Special Hints:

- The mixing ration 2:1 must be followed exactly; both components must be mixed thoroughly.
- The product should not be used at temperatures below 15°C.
- We recommend preparing sample areas to determine consumption and colour enhancement.
- Cover up surfaces not to be treated.
- Avoid contact with materials not resistant to solvents or lacquer layers.
- When you are working with Stone Strengthener E you should use AKEMI Liquid Glove in order to protect your hands.
- The hardener product inclines to yellow with permanent influence of temperature over 50°C.
- The hardened product can no longer be removed by means of solvents. This can only be achieved mechanically or by applying higher temperatures (>200°C).
- If the product has been correctly worked it presents no hazard to health when the hardening process is completed.
- Stone Strengthener E is not suited as a surface coating or sealer on very breathable stones (e.g. sandstone) in exterior use.

Safety Measures: see EC Safety Data Sheet

Technical Data:

Coverage.	approx. 1-4 m ² /litre
Colour:	colourless transparent
Density	Comp. A: approx. 0.97 g/cm ³
	Comp. B: approx. 0.94 g/cm ³
Viscosity of mixture: (2 mm DIN cup)	approx. 50 - 60 s
Working time:	approx. 30 – 60 minutes
Shelf life:	1 year approx. if stored in cool place free from frost in its tightly closed original container.

Notice: The above information is based on the latest stage of technical progress. It is to be considered as a non-binding hint and does not release the user from a performance test, since application, processing and environmental influences are beyond our realm of control.