

## Technical Data Sheet

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**Properties:**

AKEMI® Darkener Super is a ready to use, solvent-based, special impregnation containing reactive modified siloxanes. It is absorbed by the pores through the capillary forces of the stone. A polysiloxane results from the catalytic reaction. In addition, a reaction with the siliceous substance of the stone takes place. The product is distinguished by the following qualities:

- intensifies the natural colour and structure of fine ground and polished stones
- maintains the lustre of the polish
- does not form a layer on the surface of the stone
- allows the stone to breathe
- excellent weather resistance and durability
- non-yellowing
- no odour nuisance during application
- for indoor and outdoor use
- prolonged working time
- water- and dirt-resistant effect
- harmless to health upon contact with food products after hardening – certified by an external German testing institute

**Application Area:**

For the treatment of fine ground and polished absorbent natural and artificial stone, e.g. marble, slate, Solnhofen lime stone, sandstone, granite, gneiss, concrete ashlar or quartz surfaces. The product is especially suited for dark and black absorbent stones (e.g. Nero Assoluto, Impala black, Galaxy and Zimbabwe black). Damaged areas (e.g. hairline cracks) can be treated with AKEMI® Darkener Super. The surface thus obtains a homogeneous appearance. There is a very good durability of colour enhancement on silicate based stones and a good durability of colour enhancement on lime based stones.

**Instructions for Use:**

Disregarding the processing guidelines can lead to irreparable damage!

1. Cleaning: the surface must be clean, totally dry and free from all residues. Take care outdoors that the stone does not contain any detrimental salts (nitrates, sulphates, chlorides) because these can reduce the absorption of the impregnating material. Depending on the type of stone and the degree of soiling, the following products can be recommended, please pay attention to our care recommendations as well as our Technical Data Sheets: AKEMI® Stone Cleaner, AKEMI® Concrete Film Remover, AKEMI® Rust Remover, AKEMI® Algae and Moss Remover, AKEMI® Wax Stripper, AKEMI® Oil- and Grease Remover Paste and AKEMI® Graffiti Remover. Rinse well with water without fail after cleaning. Before the stone is given its protective treatment, it must be totally dry. As a rule, this is the case after 1-2 days at the earliest. Optimal working temperature is 15-25°C (59-77°F). Insure protection from rain for approx. 24 hrs. The surface must not be warmed up either by an underfloor heating or solar radiation.
2. Apply undiluted with a brush, mop or spraying device. Apply a thin, smooth layer, allowing sufficient time for the product to be absorbed into the stone.
3. Approx. 10-15 min. after application respectively when the product starts to dry, distribute once more evenly or remove the excess totally with an absorbent cloth.

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4. On very absorbent surfaces, several applications wet-in-wet may be necessary.
5. Tools can be cleaned with AKEMI® Nitro-Dilution.
6. For regular cleaning use AKEMI® Stone Soap or Crystal Clean.

**Special Notes:**

- Special protective measure in case of spray application: avoid formation of aerosols and risk to third parties. Do not breathe vapours (protective mask).
- Ensure sealing of the reverse side and lateral surfaces of the stone, so that rising moisture cannot penetrate into the stone. In this context we recommend the use of AKEMI® Anti-Stain Coating 2015 to seal the reverse side and the lateral surfaces.
- Not suitable for glazed or non-absorbent surfaces.
- Polished surfaces must be re-polished until the haze on the surface is completely removed.
- The grade of colour enhancement depends on the kind of stone. The deepening result on dark stones is more intensive than on light stones. Testing on a sample area is recommended.
- Product which has been inaccurately applied, can possibly be removed with AKEMI® Impregnation Remover.
- Use AKEMI® Liquid Glove to protect your hands.
- Protect all surrounding areas sensitive to solvents (e.g. various synthetic materials, rubber, lacquered parts).- Protect all surrounding areas sensitive to solvents (e.g. various synthetic materials, rubber, lacquered parts).
- For adequate waste disposal container must be completely emptied.
- On some natural stones like e.g. Nero Assoluto or Nero Impala the stone-imminent structures may be stronger intensified than the residual stone surface if treated with AKEMI® Darkener Super. This might be seen as staining, however, the colour intensification is not a product defect but is attributed to the characteristics of the stone.

**Technical Data:**

Coverage: up to 30 m<sup>2</sup>/liter  
Colour: slightly turbid  
Density: 0.84 g/cm<sup>3</sup>

**Storage:**

2 years if stored in a cool place in its tightly 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.

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