

## Technical Data Sheet

Page 1 of 3

**Properties:**

AKEMI® Darkener Plus 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 stone
- maintains the gloss of the polish
- can be coloured with AKEMI® Stone Ink to intensify or change the colour of the stone
- does not form a layer on the surface of the stone
- allows the stone to breathe
- excellent weather-resistance and durability
- non-yellowing
- for indoor and outdoor use
- long working time
- water- and dirt-resistant effect

**Application Area:**

For the treatment of fine ground and polished absorbent natural and artificial stone, e.g. marble, slate, Solnhofen lime stone, sandstone, granite, gneis or concrete ashlar. AKEMI® Darkener Plus can additionally be coloured with AKEMI® Stone Ink in order to further intensify the surface of the stone or change its colour. The durability of the colour intensification is good with calcareous-bound stone and very good with silicate-bound stone.

**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 impregnation. Depending on the type of stone and the degree of soiling, the following AKEMI® products can be recommended, please pay attention to our care recommendations as well as our Technical Data Sheets: Stone Cleaner, Concrete Film Remover, Rust Remover, Algae and Moss Remover POWER, Wax Stripper, Oil- and Grease Remover Paste and 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. Insure protection from rain for approx. 24 hrs. The surface must not be warmed up either by an underfloor heating or solar radiation.
2. For colour adjustment AKEMI® Darkener Plus can be coloured with AKEMI® Stone Ink (max. 30%).
3. Preparation of a sample area: before starting it is absolutely necessary to prepare a sufficiently large sample area in order to examine the efficiency of the impregnation, to evaluate the appearance of the treated object (colour enhancement) and to ascertain the material consumption as exactly as possible. Preparation of a sample area is absolutely necessary when using AKEMI® Darkener Plus mixed with AKEMI® Stone Ink in order to ascertain the colour concentration and method of application.

TDS 02.22

## Technical Data Sheet

Page 2 of 3

4. Apply undiluted with a brush, paint roller or spraying device. Apply a thin, smooth layer allowing sufficient time for the product to be absorbed into the stone.
5. Approx. 10 - 15 minutes after application, remove the excess totally with an absorbent cloth.
6. Surfaces which have been treated with coloured Darkener Plus must additionally be cleaned with AKEMI® Cleaner I.
7. Tools can be cleaned with AKEMI® Nitro-Dilution.
8. For regular cleaning, use AKEMI® Crystal Clean or AKEMI® Mild Stone Soap.

**Special Notes:**

- For professional use only.
- 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 degree of colour enhancement depends on the kind of stone. The deepening result on dark stones is more intensive than on light stones.
- 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 Plus. This might be seen as staining, however, the colour intensification is not a product defect but is attributed to the characteristics of the stone.
- Once coloured, the product can be stored for max. 1 day and should therefore be coloured afresh before application.
- Application of the coloured product with a spraying device is recommended for very absorbent surfaces.
- When using a spraying device make sure that the spraying nozzle and mechanical parts which come into direct contact with the product will be cleaned in order prevent sticking.
- Product which has been inaccurately applied, can possibly be removed with AKEMI® Impregnation Remover.
- Use afin® Liquid Glove to protect your hands.
- Protect all surrounding areas sensitive to solvents (e.g. various synthetic materials, rubber, lacquered parts).
- 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.

**Technical Data:**

Colour: opaque  
Coverage: approx. 10 - 20 m<sup>2</sup>/liter  
Density: 0.92 g/cm<sup>3</sup>

**Storage:**

If stored in dry and cool condition (5-25°C/41-77°F) in its closed original container at least 24 months from production.

**Health & Safety:**

Read Safety Data Sheet before handling or using this product.

TDS 02.22

**Technical Data Sheet**

Page 3 of 3

**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 trails of the product, in an inconspicuous area or fabrication of a sample piece.