

Technical Instruction Sheet

page 1 of 2

Characteristics:

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 stones
- maintains the lustre of the polish
- can be coloured with AKEMI® Stone Ink
- 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
- prolonged working time
- water and dirt resistant effect

Field of Application:

For the treatment of fine ground and polished absorbent natural and artificial stones, 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. 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:

1. **Cleaning:** The surface must be clean, totally dry and free from all residues. Insure that outdoors 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 are recommended (see Technical Instruction Sheets for proper use): AKEMI® Stone Cleaner, AKEMI® Concrete Film Remover, AKEMI® Rust Remover, AKEMI® Algae and Mildew Remover POWER, AKEMI® Wax Stripper, AKEMI® Oil- and Grease Remover Paste, AKEMI® Graffiti Remover. Rinse all surfaces well with water after cleaning. The stone must be completely dry (1-2 days) before treating with Darkener Plus. Optimal working temperature is 15-25°C (59-77°F). Ensure protection from rain for approx. 4-5 hrs.
2. **Preparation of a sample area:**
Before starting it is absolutely necessary to prepare a sample area of 1-2 m² 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 way of application.
3. 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. For colour adjustment AKEMI® Darkener Plus can be coloured with AKEMI® Stone Ink (max. 10%).
4. Approx. 10-15 min. after application, remove the excess totally with an absorbent cloth.
5. On very absorbent surfaces, several applications may be necessary.
6. Tools can be cleaned with AKEMI® Nitro-Dilution.
7. For regular cleaning, use AKEMI® Crystal Clean or Mild Stone Soap.

Special Hints:

- 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.
- Surfaces which are treated with coloured Darkener Plus must additionally be cleaned with AKEMI® Cleaner I.
- 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 to prevent sticking.
- Use AKEMI® Liquid Glove to protect your hands.
- Protect all surrounding areas sensitive to solvents (e.g. various synthetic materials, rubber, lacquered parts).
- For adequate waste disposal container must be completely emptied.

Technical Data:

Coverage:	approx. 10-20 m ² /litre
Colour:	opaque
Density:	0.92 g/cm ³
Shelf life:	1 year approx. if stored in a cool place in its tightly closed original container.

Safety Measures::

see EC Safety Data Sheet

Notice:

The above specifications were made in accordance with the present-day stage in development and the application technology research of our firm. Because the ways and means of application are beyond our control, the manufacturer cannot be made liable for the contents of this specification sheet.