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Characteristics:

AKEMI® Stain Repellent Super is a ready for use high-performance anti-stain impregnation based on modified oligomere alkylalkoxysiloxanes. The product is absorbed by the capillary forces of the stone and can therefore penetrate very deep. As a result of the catalytic reaction a polysiloxan is formed; in addition, a reaction with the silicate substance of the stone takes place which results in high effectiveness and resistance to wear for several years. The product shows the following properties:

- very good and long-lasting oil- and grease repellent effect
- extreme reduction of water and dirt absorption during periods of moisture
- rapid liberation of humidity during dry periods due to high vapour diffusibility
- evidently low adhesion of colours on treated stone surfaces – anti-graffiti effect
- soiling by marker pen can be removed easily
- maintenance of breathing properties because there is no surface layer
- tack-free hardening
- resistance to UV radiation
- after being hardened the product is harmless to health upon contact with food products – certified by the “LGA Nürnberg”
- no release of methanol during hardening

Field of Application:

AKEMI® Stain Repellent Super is used for water-, grease- and oil repellent treatment of mineral building material, e.g. natural and cast stones (polished ground or rough surfaces of marble, lime stone, granite, gneiss, porphyry, cotto, terrazzo, fine stoneware, concrete, unglazed ceramic tiles, engineered stone etc.) The product is especially used in kitchens (coatings, working plates), bathrooms (wash tables, marble tiles), for tables, window-sills, tile joints, façades (anti-graffiti).

Instructions for Use:**1. Cleaning:**

The surface must be clean, totally dry and free from all layers. 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 specification sheets: AKEMI® Stone Cleaner, AKEMI® Concrete Film Remover, AKEMI®, Rust Remover, AKEMI® Wax Stripper, AKEMI® Algae and Mildew Remover, Oil and Grease Remover Paste, 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.

2. Preparation of a sample area

Before starting we recommend 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.

3. Impregnating Procedure

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- a) The best conditions for impregnating are a temperature of 15-25°C and protection from humidity for approx. 6-12 hours. The stone must not be warmed up by a underfloor heating or direct sunlight
- b) The impregnating effect is sufficient for fissures which are smaller than 0.3 mm.
- c) In general, one to two appliances wet-in-wet are sufficient. In case of less absorbent surfaces we recommend to dilute with AKEMI® Nitro-Dilution in the ratio of 1:1.
- d) Apply the product with a brush, paint roller or a mop. Airless spraying equipment with low pressure (max. 1 bar over pressure) is suitable for treating façades using the flooding (multiple-coat) method and a jet distance of 5-10 cm (condition: tubes and seals must be resistant to solvents). The impregnation is applied until it runs down 40-50 cm.
- e) Approx. 20 minutes after application, respectively before drying of the impregnation on the surface, any excess which has not been absorbed by the stone has to be completely removed with a suitable cloth. Polished surfaces must additionally be polished again until any blooming on the surface is removed.
- f) If the desired effect is not achieved or if the impregnation has been applied unevenly, it is possible to apply the impregnation once again. The water repellent effect develops after approx. 4 – 6 hours, full efficiency is reached after approx. 1 week.
- g) Tools can be cleaned with AKEMI® Nitro-Dilution.

Special Hints:

- If the treated area is cleaned, a drying time of 1 – 2 days (depending on the temperature) is necessary.
- An impregnation with AKEMI® Stain Repellent Super prevents the stone from staining spots, respectively, the development of these spots will be delayed considerably. Should they nevertheless appear, the surface can be cleaned much more easily.
- Unsuted or aggressive cleaning agents as well as pressure washers may destroy the impregnation and the stone. We recommend to use AKEMI® Mild Stone Soap only for the regular cleaning. Even on stone surfaces impregnated with Stain Repellent Super, it is possible that spots are forming after a long exposure time by aggressive products, s.a. juice, vinegar, alcohol or cosmetics. Yet, this formation is by far lower as on surfaces not being treated with Stain Repellent Super. Spots can be avoided by immediately removing those aggressive products.
- Existing joints must be tested in view of their resistance to solvents. In case wetting agents had been used to smoothen joint fillers, they must be removed prior to application of the impregnation.
- Stain Repellent Super is not suited for glazed and non-absorbent surfaces or plaster.
- A surplus of the product causes blooming and spotting.
- If stored at temperatures below 15° C the product becomes cloudy, however, by heating it up to approx. 25° C the product becomes clear again.
- Use AKEMI® Liquid Glove to protect your hands.
- Surfaces to be treated must be protected against direct solar radiation.
- Protect synthetic materials which are not resistant to solvents, window screens, parts to be varnished or objects situated in the area of working (cars, gardens).

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- When applying the product correctly it is not hazardous for the health.

- 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® Stain Repellent 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.

Safety Measures: see EC Safety Data Sheet

Technical Data:

Coverage:	approx. 1 - 15 m ² /litres, depending on the absorptive capacity of the stone
Colour:	transparent yellowish
Density:	approx. 0.76 g/cm ³
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.

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