

Technical Data Sheet

Page 1 of 3

Properties:

AKEMI® Stain Repellent Super is a ready-to-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 polysiloxane 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 is characterised by the following properties:

- very good and long-lasting oil- and grease repellent effect
- extreme reduction of water- and dirt absorption during periods of moisture
- fast liberation of humidity during dry periods due to high vapour permeability
- evidently low adhesion of paints on treated stone surfaces – anti-graffiti effect
- staining by marker pens can be removed easily
- maintenance of breathing properties because there is no surface layer
- tack-free hardening
- after being hardened the product is harmless to health upon contact with food products – certified by an external German testing institute
- resistance to UV radiation
- no release of methanol during hardening

Application Area:

AKEMI® Stain Repellent Super is used for water-, grease- and oil repellent treatment of mineral building material, e.g. natural and artificial stone (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, facades (anti-graffiti).

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 layers. Depending on the type of stone and the degree of soiling, the following AKEMI® products are recommended: Stone Cleaner, Concrete Film Remover, Rust Remover, Wax Stripper, Algae and Moss Remover, Oil and Grease Remover Paste, Graffiti-Remover. Please pay attention to our care recommendations as well as the respective Technical Data Sheets. In any case, after cleaning rinse well with water. 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.

TDS 01.22

Technical Data Sheet

3. Impregnation procedure:

- a) The best conditions for impregnating is a temperature of 15-25°C and protection from humidity for approx. 24 hours. The stone must not be warmed up by an 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 or a mop. Airless spraying equipment with low pressure (max. 1 bar over pressure) is suitable for treating cades 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- and oil-repellent effect develops after approx. 1 to 2 days, full protection after approx. 1 week.
- g) Sufficient ventilation (approx. 2-3 days) is necessary when using the product in food areas.
- h) Tools can be cleaned with AKEMI® Nitro Dilution.

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.
- 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 respectively the development of these spots will be delayed considerably. Should they nevertheless appear, the surface can be cleaned much more easily.
- Unsuitable or aggressive cleaning agents as well as pressure washers may destroy the impregnation and the stone. We recommend to use AKEMI® Mild Stone Soap or AKEMI® Crystal Clean for the regular cleaning.
- Even on stone surfaces impregnated with Stain Repellent Super, it is possible that spots are forming after a long time of exposure to aggressive products (e.g. 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 these aggressive products.
- Product which has been inaccurately applied, can possibly be removed with AKEMI® Impregnation Remover.
- Existing joints must be tested in view of their resistance to solvents.

Technical Data Sheet

Page 3 of 3

- 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 afin® Liquid Glove to protect your hands.
- Recycling in accordance with the guidelines of EU Decision 97/129 EC on the Packaging Directive 94/62/EC.

Technical Data:	Coverage: up to 25 m ² m ² /liter - depending on the absorptive capacity of the stone
	Colour: transparent yellowish
	Density: approx. 0.76 g/cm ³
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.
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.

TDS 01.22