

Technical Data Sheet

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- Properties:** AKEMI® RAPID Impregnator is a ready-for-use product based on organic and organosilicon active ingredients. The product is absorbed by the capillary forces of the stone and can therefore penetrate deep into the stone structure. A reaction with the silicate components of the stone substance results in a high effectiveness and long-lasting protective effect. The product is characterized by the following qualities:
- very fast onset of the protective effect
 - very strong pearl effect
 - extreme reduction of water and dirt absorption during periods of moisture
 - rapid liberation of humidity during dry periods
 - maintenance of breathing properties because there is no surface layer
 - weather-resistant
 - the colour of the stone is usually not changed (preliminary test)
- Application Area:** AKEMI® RAPID Impregnator is used for a water- and dirt-repellent treatment on absorbent mineral substances, e.g. natural and artificial stone (polished ground or rough surfaces of marble, limestone, granite, gneiss, porphyry, cotto, terrazzo, unglazed ceramic tiles etc.) It is also very well suited for bricks, sand-lime bricks, concrete and mineral-based plaster.
- 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. In outdoor areas, make sure that the stone does not contain any harmful salts (nitrates, sulphates, chlorides), as these reduce the absorptive capacity of the impregnation. Depending on the type of stone and the degree of soiling, the following AKEMI® products are recommended: Stone Cleaner, Acid Cleaner, Concrete Film Remover, Rust Remover, Algae and Moss Remover POWER or LONGLIFE, Wax Stripper, Oil and Grease Remover Paste and Graffiti-Remover. Please pay attention to the respective Stone Care Recommendations and 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 work, it is advisable to prepare a sample area of a suitable size in order to examine the efficiency of the impregnation, to evaluate the appearance of the treated object (colour intensification) and to ascertain the material consumption as exactly as possible.
 3. Impregnation procedure:
 - a) The best conditions for impregnating are a temperature of 15 - 25°C and protection from rain for 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.

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- d) Apply the product with a brush or a mop (e.g. use AKEMI® Impregnation Application Mop, for smaller surfaces use AKEMI® Impregnation Pad). Airless spraying equipment with low pressure (max. 1 bar over pressure) is suitable for application on facades using the flooding method and a jet distance of 5 - 10 cm (condition: tubes and seals must be resistant to solvents). Running down of the product should be avoided.
- 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 AKEMI® Impregnation Finish Mop or a suitable cloth so that no residue remains on the surface. 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 a few minutes, full protection after approx. 20 - 24 hours.
- g) Tools can be cleaned with AKEMI® Nitro Dilution or AKEMI® Cleaner A.

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.
- If the treated area is cleaned, a drying time of 1 - 2 days (depending on the temperature and weather) is necessary.
- Protective treatment with AKEMI® RAPID Impregnator prevents soiling or significantly delays its formation. 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® Crystal Clean for the regular cleaning.
- 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. In case wetting agents had been used to smoothen joint fillers, they must be removed prior to application of the impregnation.
- AKEMI® RAPID Impregnator is not suited for glazed and non-absorbent surfaces or plaster.
- A surplus of the product causes blooming and spotting.
- When applying the impregnation, make sure to wear suitable protective clothing such as nitrile gloves, safety goggles etc.
- Surfaces to be treated must be protected against direct solar radiation.
- Adhesive surfaces, non-solvent-resistant plastics, window panes, parts to be painted or objects located in the working area (motor vehicles or green areas) must be protected (masking, covering).
- The evaluation of the impregnation only according to its pearl behaviour is not meaningful, as it is a pure surface effect. Dust deposits can strongly weaken the pearl effect or make it no longer visible.

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- 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:

Coverage: approx. 5 - 30 m²/liter, depending on the absorptive capacity of the stone
Colour: colourless, clear
Density: approx. 0.76 g/cm³

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

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