



“YOU SUPPLY THE TALENT... WE’LL SUPPLY THE REST!” THE COMPLEAT SCULPTOR

Technical Information Sheet – Akemi Stone Impregnation

Characteristics: Akemi Stone Impregnation is a ready for use product based on modified oilgomere alkylalkoxysiloxanes. The product is absorbed by the capillary forced of the stone and can therefore penetrate especially deep. A polysiloxan results from the catalytic reaction. In addition, a reaction with the silicate substance of the stone takes place which results in high efficiency for several years. The product is distinguished by the following qualities:

- extreme reduction of water and dirt absorption during periods of moisture
- rapid liberation of humidity during dry periods due to high vapor diffusibility
- maintenance of breathing properties because there is not surface layer
- resistance to UV radiation
- the color of the stone is normally not enhanced (preliminary test)

Field of Application: Akemi Stone Impregnation is suited to achieved a water and dirt repellent effect on absorbent mineral substances s.a. natural and cast stone (polished ground or rough surfaced or marble, lime stone, granite, gnesis, porphyry, cotto, terrazzo, unglazed ceramic tiles, etc.) It is also very well suited for bricks, sandlime bricks, concrete and mineral-based plaster.

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, see other Akemi products for appropriate cleaning. 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 cast after 1-2 days at the earliest.
2. **Preparation of sample area:** Before starting we recommend to prepare a sample area or 1-2m² In order to examine the efficiency of the impregnation, to evaluate the appearance of the treated object (color enhancement) and to ascertain the material consumption as exactly as possible.
3. **Impregnation Procedure:**
 - a. The best conditions for impregnating are a temperature of 10-25°C and a 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.
 - 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 facades using the flooding (multiple-coat) method and a jet distance or 5-0 cm (condition: tubes and seals must be resistant to solvents). The impregnation is applied until it runs down 40-50cm.
 - 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 surfaced must additionally be polished again until any blooming on the surface is removed.
 - f. If the desired effect is not achieved of it 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.

Special Hints:

- If the treated are is cleaned, a drying time of 1-2 days (depending on the temperature) is necessary
- An impregnation with Akemi Stone Impregnation will considerably delay the stone getting dirty again. Sand should the surface become dirty again it can be cleaned much more easily.
- Unsuitable or aggressive cleaning agents as well as pressure washers may destroy the impregnation and the stone.
- Existing joints must be tested in view of their resistance to solvents. In case wetting agents had been used to smooth joint fillers, they must be removed prior to application of the impregnation.
- 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).
- When applying the product correctly it is not hazardous for the health.
- An evaluation of the impregnation according to its water repellent effect is not sufficient because of this effect shows on the surface only. The water repellent effect can be diminished or be invisible due to dust settings.
- The color of most stone surfaces will not or only slightly change. On quartzite and serpentine a clearly recognizable color enhancement occurs. Therefore it is recommendable to test on a sample piece or an inconspicuous area.
- For adequate waste disposal container must be completely emptied.

Safety Measures: see EC Safety Data Sheet

Technical Data:

Coverage:	approx. 1-15 m ² /liters, depending on the absorptive capacity of the stone.
Color:	colorless to 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 use from a performance test, since application, processing and environmental influences are beyond our realm of control.

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