



Technical Data Sheet

Page 1 of 3

Properties:	 AKEMI[®] Stain Repellent Nano-Effect is a ready-to-use weather-resistant and non-yellowing impregnation based on high-quality organic active substances. The product is absorbed by the stone due to the capillary forces, however, without closing the pores. The product is characterised by the following properties: very fast development of protective effect distinctive nano effect no or only low colour enhancement excellent oil- and grease repellent effect excellent 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 maintenance of breathing properties because there is no surface layer took from be addening 	
	 tack-free hardening resistance to UV radiation after being hardened the product is harmless to health upon contact with food products – certified by an external German testing institute no release of methanol during hardening 	
Application Area:	AKEMI [®] Stain Repellent Nano-Effect is used for water-, grease- and oil repellent treatment of mineral building and countertop material, e.g. natural stone, quartz surfaces and artificial stones (polished ground or rough surfaces of marble, lime stone, granite, gneiss, porphyry, cotto, terrazzo, fine stoneware, concrete, cement tiles, unglazed ceramic tiles 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!	
	 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 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 m ² 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.	



Technical Data Sheet

Page 2 of 3

- 3. Impregnation procedure:
- a) Shake well before use. The best conditions for impregnating is a temperature of 15-25°C and protection from humidity for approx. 2-3 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-repellent effect develops after a few minutes, full protection after 2-3 hours.
- 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: - 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 stored at temperatures below 15 C° the product tends to thicken. By warming to approx. 20°C it becomes fully liquid and homogenous.
- 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 Nano-Effect 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.
- Unsuited 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 Nano-Effect, 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 Nano-Effect. Spots can be avoided by immediately removing these aggressive products.

TDS 08.16



Technical Data Sheet

Page 3 of 3

	 removed with AK Existing joints muchase wetting age be removed prior Stain Repellent N surfaces or plaste A surplus of the p Use AKEMI[®]Liqu Surfaces to be transference of the surfaces of the surfaces to be transference of the surfaces of the surf	broduct causes blooming and spotting. id Glove to protect your hands. eated must be protected against direct solar radiation. materials which are not resistant to solvents, e.g. parts to be varnished or objects in the area of	
Technical Data:	Coverage: Colour:	approx. 5 – 20 m²/liter – depending on the absorptive capacity of the stone transparent yellowish	
	Density:	approx. 0.78 g/cm³	
Storage:	2 years if stored in cool place free from frost in its tightly closed original container.		
Health & Safety:	Read Material 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.		