Technical Data Sheet

Properties:

AKEMI® Anti-Stain Coating 2015 is a long-lasting, solvent-free protective coating based on a 2-component polymer formulation.

The product is characterized by the following properties:
- easy dosing and mixing due to harmonized system (see instructions for use)
- easy working due to liquid consistency
- economic efficiency due to thin product layer
- no sagging on lateral surfaces
- tensionless hardening
- excellent weather resistance
- excellent resistance to alkalis
- good adhesion on slightly humid stone
- the product has no tendency towards crystallization; for this reason, there are no problems and good processing safety

Application Area:

AKEMI® Anti-Stain Coating 2015 is used - in combination with quartz sand - for the rear and lateral sealing of natural and artificial stone slabs which are used for a fixed laying with mortar indoors and outdoors. The rear sealing prevents blooming, discolouring and flaking caused by emerging moisture. Prevents staining caused by defects in the sub-structure. The quartz sand dispersed on the coating layer acts as an adhesion primer to the laying mortar.

Instructions for Use:

A. Product in buckets:
1. Remove the stretch lids from the buckets and stir up both components before use.
2. Fix the stretch lids with the dosing pumps on the buckets. Press the pump until material emerges.
3. At first two parts by volume of component A, then one part by volume of component B is emerged by means of the pump in the dosing and mixing cup; afterwards they are thoroughly mixed until a homogenous shade of colour is achieved.
4. Further processing follow point 4 of instructions of use of products in cans.

B. Product in cans:
1. Remove the lid of the cans and stir up both components before use.
2. Component B is completely filled in the can of component A, then mix thoroughly until a homogenous shade of colour is achieved.
3. To facilitate emptying of the can, it can be equipped with a spout.
4. The mixture remains workable for approx. 20 - 30 minutes (20°C).
5. Spread the mixture on the clean, dry and stable rear side as well as the lateral sides of the slab with a short-hair roller. Maximum coating of the lateral sides up to max. ⅔ of the surface. Setting angle of the roller approx. 45°.
6. Consumption approx. 150 - 200 g/m², depending on the roughness and absorptive capacity of the stone.
7. Sand the resinated slabs completely with washed quartz sand (grain 0.6 to 1.2 mm). The sanded slabs can be piled during the hardening process in order to save space. We recommend putting a separation foil made of PE, PP between the treated slabs. Consumption of quartz sand: approx. 800 - 1000 g/m².

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8. The surfaces are dry after approx. 6 - 8 h (20°C), after approx. 16 to 20 h (20°C) the slabs can be laid. Max. stability after 7 days (20°C).
9. Tools can be cleaned with AKEMI® Nitro Thinner.
10. Warmth accelerates and cold retards the hardening process.

Special Notes:

- For professional use only.
- The optimal mechanical and chemical properties can only be attained by adhering to the exact mixing proportions; excess of component A or B has the effect of a plasticizer or discolouring of marginal zones.
- The product is no longer to be used if it has already thickened or is jellying.
- The product is not to be used at temperatures under 10°C because it will not sufficiently harden.
- Formation of rust stains can be avoided or reduced on ferrous stones.
- Surfaces can be impregnated afterwards.
- The hardened resin can no longer be removed by means of solvents. This can only be achieved mechanically or by applying higher temperatures (> 200° C).
- 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:

1. Colour component A + B: grey

2. Density component A + B: approx. 1.4 g/cm³

3. Working time:
   a) Mixture of 100 g component A + 50 g component B
   at 20°C: 20 - 30 minutes
   at 30°C: 10 - 15 minutes

   b) At 20°C and various quantities:
   100 g component A + 50 g component B: 20 - 30 minutes
   200 g component A + 100 g component B: 20 - 30 minutes
   400 g component A + 200 g component B: 15 - 20 minutes
   600 g component A + 300 g component B: 15 - 20 minutes

4. Theoretical productivity:
   Cans of 900 g: approx. 4 - 6 m²
   Buckets of 15 kg: approx. 75 - 100 m²

5. Hardening process (shore D-hardness) of a 2 mm layer at 20°C:

6 hrs	7 hrs	8 hrs	9 hrs	24 hrs	7 d
24	51	61	69	81	82

6. Chemical resistance:

Saturated calcium hydroxyl solution (lime water)	stable
Sodium Chloride Solution 10%	stable
Salt water	stable
Ammonium 10%	stable

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Soda lye 40%	stable
Hydrochloric acid 10%	moderately stable
Acetic acid 10%	not stable
Formic acid 10%	not stable
Petrol	stable
Diesel oil	stable
Olive oil	stable
AKEMI® Stone Cleaner concentrate	stable

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.

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