BUILDING TRUST

PRODUCT DATA SHEET

Sika® Antisol®-111

(formerly MKure 111)

Evaporation retardant and finishing aid

DESCRIPTION

Sika® Antisol®-111 evaporation retardant used for reduction of surface moisture evaporation, subsequently improving treated concrete quality.
Because Sika® Antisol®-111 retards evaporation, it is especially effective in combating rapid drying conditions such as low humidity, high winds, direct sunlight, work in heated interiors during cold weather, etc.
Suitable for use in hot and tropical climatic conditions.

USES

- Concrete surfaces where the evaporation rate exceeds the rate of bleeding of the concrete.
- Concrete containing GGBS (Ground Granulated Blast Furnace Slag)
- Concrete containing Microsilica (Silica Fume)
- Concrete containing Fly Ash (PFA)

FEATURES

- Reduces surface moisture evaporation ~80% in wind and ~40% in sunlight.
- It has no effect on the cement hydration process.
- Concrete strength (early and ultimate), abrasion resistance and durability are not altered, except for the improvement in overall quality resulting from the control of rapid evaporation.
- Reduces crusting, stickiness and underlying sponginess which often cause unevenness and poor surface texture by controlling the evaporation of concrete while waiting between initial finishing and later toweling or power floating.
- Reduces plastic shrinkage cracking and wind crusting of flatwork surfaces. Also supplements the recommended practices for hot weather concreting. Under some conditions, properly diluted Sika® Antisol®-111 alone will provide the necessary safeguard against the ill effects of evaporation.
- Increases the flexibility and efficiency of the applicator, even under rapid-drying conditions because the surface remains plastic and finishable for a longer time. Thus, work can proceed whereas, without Sika® Antisol®-111, it might be postponed to avoid finishing problems.

PRODUCT INFORMATION

Packaging	Containers and drums
Shelf life	12 months from date of production if stored properly
Storage conditions	Store in undamaged, unopened, original sealed packaging in dry conditions at temperatures between +5°C and +50°C. Protect from direct sunlight and frost.
Appearance and colour	Bright yellow liquid
Density	~1.0 kg/l (+25°C)

APPLICATION INFORMATION

Consumption	6–8 m²/l Recommended dosage is mixing 1 part Sika® Antisol®-111 with 9 parts of water, to have sprayable solution. Agitate Sika® Antisol®-111 before mixing with water. Re-agitate mixed materials before applying.

BASIS OF PRODUCT DATA

- All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.
- Internal Reference - Version: MBS_CC-UAE/ Kure_111_05_97/v2/11_17

FURTHER DOCUMENTATION

Sika® Antisol®-111 is an evaporation retardant monomolecular filming agent the use of which is mentioned in:

- ACI 305 Hot Weather Concreting
- ACI 345 Guide for Concrete Highway Bridge Deck Construction
- ACI 302.1 Guide for Concrete Flooring and Slab Construction

IMPORTANT CONSIDERATIONS

- When applying surface hardeners under hot and/or windy conditions, the use of Sika® Antisol®-111 is strongly recommended after screeding. The residue remaining on the surface of hardened concrete does not impair bonding or alter colour. The protective shield of Sika® Antisol®-111 usually lasts as long as the concrete remains plastic, despite succeeding floating and troweling operations.
- Sika® Antisol®-111 contains a fluorescent colour tint which disappears completely upon drying when sprayed onto the surface immediately after screeding and/or between finishing operations (as needed). Sika® Antisol®-111 forms a monomolecular film. This film is easily distinguished from untreated surfaces by its yellow colour in the presence of surface moisture and ultraviolet rays (sunlight or artificial lighting).
- Do not use Sika® Antisol®-111 as a finishing aid to facilitate easier finishing of cementitious dry shake surface hardeners or toppings after they have begun to take initial set.
- Sika® Antisol®-111 evaporation retardant is not a curing agent. Concrete treated with this product must still be cured. Sika is not responsible for compatibility or results when Sika® Antisol®-111 evaporation reducer is used with other manufacturers' products.
- Sika® Antisol®-111 reduces evaporation only while concrete is in its plastic state. It is not a substitute for early curing of hardened concrete, nor does it alter the effectiveness of membranetype curing compounds.
- Sika® Antisol®-111 is not to be applied during any finishing operation nor should it be worked into the concrete surface.
- Sika® Antisol®-111 must be protected from freezing. Extreme cold may cause segregation which cannot be reconstituted.
- Any residue remaining from spillage or spraying of Sika® Antisol®-111 concentrate on the surface of hardened concrete should not be allowed to dry. Wipe it up immediately, then rinse the surface with water.
- If the applied area dries, then the product has to be re-applied.
- If the Sika® Antisol®-111 residue is allowed to dry on hardened concrete, a red-brown stain may appear. To remove the stain, place a cloth saturated in a household-type, chlorinated bleach onto the stain, then cover it with plastic to retard evaporation. After approximately one hour, the stain should disappear* completely. Rinse the area with water.

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product’s suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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