

PRODUCT DATA SHEET

SikaPaver® AE-1

EFFLORESCENCE REDUCER WITH COMPACTION AID FOR BRILLIANT COLOURS



DESCRIPTION

SikaPaver® AE-1 is an efflorescence reducer with simultaneously plasticising effect especially for brilliant coloured semi-dry concrete precast elements.

USES

- Pavers, especially for coloured semi-dry face and base mixes
- Concrete tiles made from semi-dry concrete
- Coloured garden and landscaping elements

CHARACTERISTICS / ADVANTAGES

SikaPaver® AE-1 causes in semi-dry concrete mixes:

- Better dispersion and wetting of cement, additives and pigments
- Lower frictional forces between cement and aggregates
- Introduction of smallest, evenly distributed air pores
- A considerable hydrophobic effect by increasing the surface tension to the water

This creates the following advantages with fresh concrete:

- Stronger compactability, which allows for example achieving shorter cycle times or higher concrete densities
- Reduced adhesion between the top-layer and the tamper head (anti-sticking effect)
- increased green strength (shape keeping) after immediate de-molding

SikaPaver® AE-1 enables an economic production of high-quality concrete products with:

- Improved density and strength
- Smooth flanks and surfaces
- Reduced capillary suction
- Uniforme and intense colour of the concrete
- Reduced efflorescence tendency
- Increased resistance to freezing/thawing and de-icing salts
- Lower fluctuation of quality and therefore less 2nd grade products

APPROVALS / CERTIFICATES

- CE Mark and Declaration of Performance according to EN 934-2 Table 9 (water resisting admixtures).

PRODUCT INFORMATION

Composition	Oleate
Packaging	Drum: 200 kg net weight IBC: 1000 kg net weight Bulk: min 6 t
Appearance / Colour	Liquid / Light yellow
Shelf life	12 months from date of production if stored properly in original, unopened packaging. After prolonged Storage, agitate the product before using.
Storage conditions	Protect from frost, intense sunlight and contamination. In case of bulk de-

livery, the tanks and equipment used must be clean.

Density	~ 1,00 kg/dm ³ at +20°C
pH-Value	~ 11
Total Chloride Ion Content	≤ 0,10 %
Equivalent Sodium Oxide	≤ 1,5 %

APPLICATION INFORMATION

Recommended Dosage	0,2 - 0,6 % of binder weight (cement + additives)
Dispensing	SikaPaver® AE-1 shall be added with the mixing water or introduced at the end of the mixing process. The necessary mixing time after the admixture dosage depends on the individual mixer.
Restrictions	Before use suitability tests must be performed. The reduction of the most common efflorescence (in the horizontal gaps between the individual layers of the paving stone package) requires a dense and hydrophobic concrete structure for both, base and facing mixes. Sufficient compaction of base and face concrete is essential to ensure the targeted performance parameters of the manufactured semi-dry concrete elements. For further information and advice, please contact our Technical Service Department. The use of SikaPaver® AE-1 in wet cast concrete is not suitable.

BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

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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