



PRODUCT DATA SHEET

SikaMix® AE-3

EFFLORESCENCE REDUCING AND WATER REPELLING ADMIXTURE

PRODUCT DESCRIPTION

SikaMix® AE-3 is a high performance efflorescence reducing and water repelling admixture for various concrete applications.

WHERE TO USE

Typical applications of SikaMix® AE-3 are:

Dry and semi-dry cast applications:

- Concrete masonry units
- Pavers
- SRW's

Wet cast applications:

- Stone veneer
- Architectural precast

Aesthetics:

- Use of SikaMix® AE-3 may improve colour brightness

CHARACTERISTICS / ADVANTAGES

For the production of dry cast and wet cast concrete, the use of SikaMix® AE-3 will result in:

- Improved water repellency
- Reduced efflorescence
- Increased durability
- Improved aesthetics (brighter colours)
- Improved production rates

APPROVALS / CERTIFICATES

SikaMix® AE-3 meets ASTM E514 Standard Test Method for Water Penetration and Leakage Through Masonry.

PRODUCT INFORMATION

CSC MasterFormat®	03 05 00
Packaging	193 L (51 US gal.) drum 969 L (256 US gal.) IBC Bulk delivery
Appearance / Colour	Liquid / white
Shelf Life	1 year when stored in dry warehouse conditions at temperatures between 5 °C and 27 °C (40 °F and 80 °F).
Storage Conditions	Store at temperatures above 5 °C (40 °F). If frozen, admixture cannot be re-constituted and must be discarded accordingly to local regulations.
Specific Gravity	Approx. 0.92 - 0.98

APPLICATION INFORMATION

Recommended Dosage

Normally a dosage range of 97.5-195 mL/100 kg (1.5 to 3 fl. oz/100 lb) of cementitious material should be sufficient for efflorescence and absorption control. However, dosage rate will vary according to targeted application. If water repellency is required, dosage may be increased to 130-325 mL/100 kg (2 to 5 fl. oz /100 lb) of cementitious material. Actual dosage rate will vary based upon mix design. Proper dosage should be always verified by trial batch to ensure desired performance is achieved. Dosages outside the recommended range may be used for special requirements and applications. Contact your Sika Canada Technical Sales Representative for further information.

Mixing

As SikaMix® AE-3 is a low dosage admixture and the majority of applications will have a very low water cement ratio, it is necessary to provide sufficient mixing time to allow the admixture to be distributed throughout the entire batch and provide uniform performance. In general, a total mixing time of at least 90 seconds is essential. Mixing time after adding the admixture depends on the individual circumstances and should be determined by trials. SikaMix® AE-3 can be added with the batching water or introduced at the end of the mixing process.

Do not introduce SikaMix® AE-3 up front, or directly onto dry cementitious materials, as this may reduce admixture performance.

BASIS OF PRODUCT DATA

Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment, preparation, application, curing and test methods.

ENVIRONMENT, HEALTH & 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 recommendations, or from any other advice offered. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. 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 or may be downloaded from our website at: www.sika.ca

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Product Data Sheet

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