

# Sika® Repel AE

## Efflorescence Reducing and Water Repelling Admixture

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### Product Description

Sika® Repel AE is a high performance efflorescence reducing and water repelling admixture for various concrete applications.

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### Uses

Sika® Repel AE is a high efficiency concrete admixture that can be used for efflorescence reduction, absorption control and water repellency. Typical applications are:

**Dry and Semi-dry cast applications:**

- Concrete masonry units
- Pavers

**Wet cast applications:**

- Stone veneer
- Architectural precast
- Watertight concrete

**Aesthetics:**

- Use of Sika® Repel AE may improve colour brightness

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### Characteristics / Advantages

Sika® Repel AE is suitable for the production of dry cast and wet cast concrete. Use of Sika® Repel AE results in:

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

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### Product Data

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#### Form

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**Colour** White liquid

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**Specific Gravity** 1.0 approx.

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**Packaging** Sika® Repel AE is available in 20 Litre drum, 205 Litre drum or 1,000 Litre IBC

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#### Storage

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#### Storage Conditions / Shelf-Life

Sika® Repel AE should be stored at above 5°C. If frozen, admixture cannot be re-constituted and must be discarded according to local laws.

Shelf life when stored in dry warehouse conditions between 5°C and 27°C is 1 year.

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## System Information

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### Application Details

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**Dosage** Dosage rate will vary according to targeted application. Normally a dosage range of 150 - 500 ml / 100 kg of cementitious material should be sufficient for efflorescence and absorption control. If water repellency is required dosage may be increased to 1,000 - 2,000 ml / 100 kg of cementitious material. Actual dosage rate will vary based upon mix design. Proper dosage should always be verified by trial batch to ensure desired performance is achieved.

Dosages outside the recommended range may be used for special requirements and applications.

**Mixing** For concrete containing a low water content and applications that 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.

Sika® Repel AE can be added with the batching water or introduced at the end of the mixing process.

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

**Value Base** 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.

**Health and Safety Information** For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet 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's 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 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 proprietary rights of third parties must be observed. All orders are accepted subject of our terms and conditions of sale. Users should always refer to the most recent issue of the Australian version of the Technical Data Sheet for the product concerned, copies of which will be supplied on request.

PLEASE CONSULT OUR TECHNICAL DEPARTMENT FOR FURTHER INFORMATION

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