

## Sika®1 +

### Water Resisting Concrete Admixture

**Product Description** Sika®1+ is a liquid water resisting admixture used to reduce the permeability of concrete. Used in combination with Viscocrete® Superplasticiser Technology, watertight concrete can be produced which is suitable for BS8102:2009 Type B construction (grades 1-3). It meets the requirements of BS EN 934-2.

**Uses** Sika®1+ has been specifically formulated to produce high quality watertight concrete. Sika®1+ is used as a constituent of the Sika®WaterTight concrete system and contact MUST be made with Sika Ltd to ensure that full system compliance is achieved. This Technical Data Sheet MUST be read in conjunction with Sika publication Sika® Technology and Concept for Watertight Construction.

- Water retaining structures
- Below ground structures
- Swimming pools
- Lift pits
- Tunnels

**Characteristics / Advantages**

- Reduces water absorption
- Reduces water penetration

**Concrete Mix Design** Sika®1+ has been formulated for use in concrete with a medium to high workability (>S3 Consistence) with a minimum cement content of 350kg/m<sup>3</sup> and a maximum water/cement ratio of 0.45.

#### Tests

**Approvals / Standards** Conforms to the requirements of BS EN 934-2 Table 9 DoP 02 07 05 04 001 0 000001 1088, certified by Factory Production Control Body 0086, Certificate 541325, and provided with the CE mark

### Product Data

#### Form

**Appearance / Colour** Pink liquid

**Packaging** 25 litre drum, 200 litre drum, 1000 litre IBC

#### Storage

**Storage Conditions / Shelf-Life** 12 months from date of production if stored in unopened and undamaged original sealed containers protected from moisture at temperatures between +5°C and +25°C.



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## Technical Data

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**Chemical Base** Neutralised amino alcohol

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**Density** 1.02 kg/litre

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**pH Value** 8.5 ± 1.0

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**Water Soluble Chloride Content** <0.1% (chloride free)

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**Alkali Content** <0.1%

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## System Information

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### Application Details

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**Consumption / Dosage** ■ 1.5% by weight of cement or a minimum of 5.25L/m<sup>3</sup>

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**Dispensing** ■ Sika®1+ should be dispensed through suitable calibrated equipment.

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**Application Conditions / Limitations**

- Sika® 1+ should not be added to dry cement
- Sika®1+ should be added with the mixing water

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**Compatibility** Sika®Admixtures:

- Compatibility information available on request

Cements:

- All cement combinations

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**Notes on Application / Limitations**

- Support from our Technical Department is recommended
- If used in combination with a Visocrete®superplasticiser in the construction of a watertight environment contact MUST be made with Sika Ltd

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**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.

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**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.

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**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.

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**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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## CE Labelling

EN 934-2:2009 is a candidate "harmonized" European Standard and fully takes into account the requirements of the European Commission mandate M128. Products related to concrete, mortar and grout, given under the EU Construction Products Directive (89/106/EEC) and intended to lead to CE marking.

CE-labelled as per Annex ZA.3, table ZA.2 conformity 2+ and fulfil the requirements of the given mandate of the EU Construction Products Directive (89/106/CE).



### SIKA LIMITED

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