

# Sikament® 700

## High Range Water Reducing/Superplasticising Concrete Admixture

Construction

### Product Description

Sikament® 700 is a liquid admixture for concrete which is used as a high-range water reducer/superplasticiser. It meets the requirements of BS EN 934-2

### Uses

- Sikament® 700 is a unique product that is suitable for the production ready mixed flooring concretes
- Suitable for laser screed and hand laid floor slabs
- Applications that require high quality concrete
- Application that require high early strength

### Characteristics / Advantages

- High-range water reductions resulting in higher strengths and densities
- Improved cohesion
- Improved early and ultimate strengths
- Improved rheology
- Improved durability
- Reduced drying shrinkage
- Reduced mix costs
- Loss of consistence due to fibre reinforcement can be compensated.

### Tests

#### Approval / Standards

Conforms to the requirements of BS EN 934-2 Table 3.1 & 3.2 DoP 02 13 02 01 100 0 000188 1088, certified by Factory Production Control Body 0086, Certificate 541325, and provided with the CE mark

### Product Data

#### Form

Liquid

#### Appearance / Colours

Straw

#### Packaging

200 litre drum and 1000 litre IBC

#### Storage Conditions / Shelf Life

12 months from date of production if stored properly in undamaged containers, in dry conditions at temperatures between +5°C and +25°C. Protect from direct sunlight and frost.



## Technical Data

<b>Chemical Base</b>	Modified polycarboxylate
<b>Density</b>	1.03 kg/l (at +20°C)
<b>pH Value</b>	4.5 ± 1.0
<b>Freezing Point</b>	+1°C
<b>Chloride Ion Content</b>	<0.10% w/w (chloride free)
<b>Air Entrainment</b>	Negligible
<b>Effect on Setting</b>	Slight extension to normal setting
<b>Effect of Overdosing</b>	Increased workability and segregation
<b>Alkali Content</b>	<0.30% w/w

## Mechanical / Physical Properties

### Compressive Strength Typical Data - Sikament® 700

Admixture	Dose (BWC%)	w/c ratio	Slump (mm)	Air cont %	28 day Compressive Strength N/mm <sup>2</sup>
Control (350 kg/m <sup>3</sup> )	None	0.45	70	1.1	30.0
Sikament® 700	0.50	0.38	70	1.6	40.0

## System Information

### Application Details

**Consumption / Dosage** 0.4 -1.5% by weight of cement

### Application Conditions / Limitations

#### Compatibility

Sika®Admixtures:

- Compatibility information available on request

Cements:

- All cement combination

### Application Instructions

**Dispensing** ■ Sikament® 700 should be dispensed through suitable calibrated dosing equipment.

**Application Method / Tools** ■ The standard rules of good concreting practice, concerning production as well as placing, are to be followed. Refer to relevant standards. Fresh concrete must be cured properly.

- Sikament® 700 should not be added to dry cement
- Sikament® 700 should be added with the mixing water

**Notes on Application / Limitations** ■ When using Sikament® 700 a suitable mix design is required and local material sources should be evaluated.

- Support from our Technical Department is recommended

<b>Value Base</b>	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.
<b>Local Restrictions</b>	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.
<b>Health and Safety Information</b>	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.
<b>Legal Notes</b>	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.
<b>CE Labelling</b>	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).



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