



# Sikament<sup>®</sup> HE300

## Super Plasticiser/Accelerator

### Technical Data Sheet

#### DESCRIPTION

**Sikament HE300** is a super plasticising and accelerating concrete admixture based on Naphthalene-Formaldehyde. **Sikament HE300** is manufactured in the UK by Sika under strict quality control.

**Sikament HE300** can be used to either produce 'flowing concrete' or enable large water reductions to be made for the same workability. **Sikament HE300**, however, has the advantage of producing very high early strengths and thus makes the material suitable for use in pre-cast concrete applications and in areas where higher workability concrete and fast shutter stripping is required.

#### ADVANTAGES

**Sikament HE300** provides the following benefits:–

- \* As a superplasticiser:
  - \* Substantial improvements in workability without increased water or the risk of segregation
  - \* Reversion from high workability within 1–2 hours
  - \* Improved concrete density and surface finish
  
- \* As a water reducer:
  - \* Up to 30% water reducing. 40% increase in 28 day strengths are possible
  - \* High strength between 4 hours and 24 hours can be obtained
  - \* Increases frost and water resistant properties of the concrete because of reduced water content and low permeability
  - \* Extremely high workability
  - \* Little vibration required
  - \* Can replace steam curing
  - \* Faster mould turn round
  - \* Higher strength at all ages
  - \* High durability concrete
  - \* Ultra-high strength concrete
  - \* *Ideal* for power trowelled floors

#### Technical Data (typical)

<b>Form:</b>	Liquid
<b>Colour:</b>	Brown
<b>Specific Gravity:</b>	1.2
<b>Chloride Content % w/w:</b>	Nil (ie less than 0.2% w/w)
<b>Equivalent Sodium Oxide as % Na<sub>2</sub>O:</b>	10.9% w/w as Na <sub>2</sub> O (typical)
<b>Effect on Setting:</b>	The concrete will set and lose workability quicker
<b>Freezing Point °C:</b>	-5°C
<b>Suitability:</b>	All Portland Cement including SRC

All above values are approximate.



## METHOD OF USE

In order to obtain the best results, **Sikament HE300** must be used with specially designed mixes designed for the particular requirements of strength, cost saving or flowing concrete. For maximum dispersion **Sikament HE300** should be added with the mixing water. On no account should it be added to the dry cement. **Sikament HE300** can be added at the plant or on site, when added at site the mixer trucks should rotate their drums at maximum revolutions until a uniform mix is achieved.

## DOSAGE

The dosage rate of **Sikament HE300** is best found after initial site trials. As a guide, an addition rate of 0.8–3.0 % by weight of cementitious content (0.40–1.5 litres per 50 Kg cementitious) is recommended for 'flowing concrete', 1.0–3.5% for high strength concrete. (0.5–1.75 litres per 50 Kg cementitious).

## PACKAGING

**Sikament HE300** is supplied in 25 litre and 200 litre drums. Bulk deliveries can be arranged.

## STORAGE AND SHELF LIFE

Minimum 1 year in sealed containers stored in dry warehouse condition (+5°C – +25°C). Protect from frost.



### Handling Precautions

Sika products are generally harmless provided that certain precautions normally taken when handling chemicals are observed. The materials must not, for instance, be allowed to come in contact with foodstuffs or food utensils and measures should also be taken to prevent the uncured materials from coming in contact with the skin, since people with particularly sensitive skin may be affected. The use of protective clothing, goggles, barrier creams and rubber gloves is required. The skin should be thoroughly cleaned at the end of each working period either by washing with soap and warm water or by using a resin-removing cream - the use of powerful solvents is to be avoided. Disposable paper towels - not cloth towels - should be used to dry the skin. Adequate ventilation of the working area is recommended. In case of accidental eye or mouth contact, flush with water - consult a doctor immediately. Health and Safety information on Sika Products is available and we strongly advise that this is read prior to their use. Sika products are for professional use and should be stored in sealed containers away from the reach of children.

### Important Note

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 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 to our current terms of sale and delivery. Users should always refer to the most recent issue of the Technical Data Sheet for the product concerned, copies of which will be supplied on request.

**Please consult our Technical Sales Department for further information**

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