



# Sikaset® CF1

## Chloride Free Accelerator

### Technical Data Sheet

#### DESCRIPTION

**Sikaset CF1** is a plasticising and accelerating concrete admixture. **Sikaset CF1** is manufactured in the UK by **Sika** under strict quality control.

**Sikaset CF1** can be used to enable significant water reductions to be made for the same workability. **Sikaset CF1**, however, has the advantage of protecting the concrete when plastic and in the early stages of hardening. To provide additional antifreeze protection, the dosage can be increased to 2% by weight of cement.

Complies with EN 934 Part 2 Table 7 - Hardening Accelerating Admixtures.

#### ADVANTAGES

**Sikaset CF1** provides the following benefits:-

As a plasticiser:

- \* Significant improvements in workability without increased water or the risk of segregation
- \* Higher early strengths are obtained without increase of cement content
- \* Improved concrete density and surface finish
- \* Up to 10% water reducing. 15% increase in 28 day strengths are possible
- \* Higher strengths between 12 hours and 24 hours are obtained
- \* Increases the resistance to freeze thaw cycle properties of the concrete because of reduced water contents and low permeability
- \* Higher workability possible
- \* Less vibration required
- \* Higher strength at all ages
- \* More durable concrete

#### Technical Data

<b>Form:</b>	Liquid
<b>Colour:</b>	Brown
<b>Relative Density @ 20°C:</b>	1.320
<b>Dry Material Content %:</b>	40.5
<b>pH Value:</b>	7.5
<b>Water Soluble Chloride Content %:</b>	<0.1 Chloride free
<b>Alkali Content %:</b> (as Na <sub>2</sub> O equivalent)	<0.85

Above data provided as manufacturers stated values in accordance with EN 934-2 General Requirements.

## METHOD OF USE

In order to obtain the best results, **Sikaset CF1** must be used with specially designed mixes designed for the particular requirements of strength and weather conditions. For maximum dispersion **Sikaset CF1** should be added with the mixing water. On no account should it be added to the dry cement. **Sikaset CF1** 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

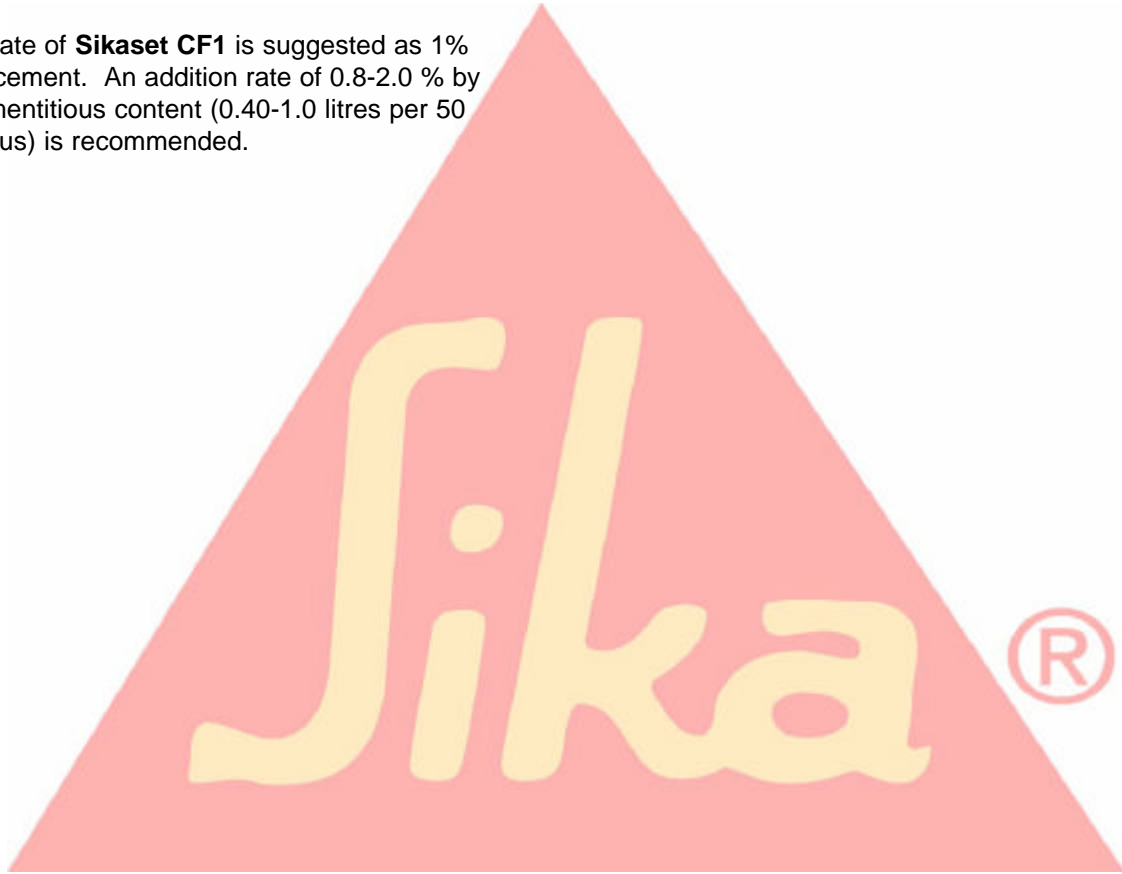
The dosage rate of **Sikaset CF1** is suggested as 1% by weight of cement. An addition rate of 0.8-2.0 % by weight of cementitious content (0.40-1.0 litres per 50 kg cementitious) is recommended.

## PACKAGING

**Sikaset CF1** is supplied in 25 litre tubs and 200 litre drums. Bulk deliveries can be arranged.

## STORAGE AND SHELF LIFE

**Sikaset CF1** should be stored in sealed containers between 5°C and 30°C and protected from frost. Under these conditions the shelf life is 1 year minimum.



### 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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