

## PRODUCT DATA SHEET

# SikaControl® FD-100

## INTEGRAL FRESH CONCRETE DENSIFIER

### DESCRIPTION

SikaControl® FD-100 is a concrete admixture formulated to densify freshly mixed concrete for interior flooring applications. SikaControl® FD-100 meets the requirements of ASTM C494/AASHTO M 194, Type S.

### USES

SikaControl® FD-100 is designed for use in non-air entrained concrete applications only and is effective in concrete containing supplementary cementitious materials. SikaControl® FD-100 is especially suitable for use in interior concrete slabs receiving a machined hard trowel finish such as:

- Warehouses
- Show Rooms
- Shopping Malls
- Parking Garages
- Schools / Hospitals
- Retail Stores
- Hotels
- Manufacturing Facilities

### CHARACTERISTICS / ADVANTAGES

SikaControl® FD-100 is formulated to increase the density of freshly mixed non-air entrained concrete and to help achieve concrete properties as described in ACI 302.1R - Guide to Concrete Floor and Slab Construction.

SikaControl® FD-100 also provides:

- Reduced risk of blistering and delamination,
- Improved aesthetics with minimal surface defects,
- Improved finish of polished surfaces,
- Reduced risk of claims related to air,
- Improved concrete uniformity and durability.

SikaControl® FD-100 does not contain intentionally added chlorides.

### ENVIRONMENTAL INFORMATION

Enables use of otherwise rejected concrete due to air contents above the specified limit.

A Manufacturer Inventory is available for SikaControl® FD-100.

### PRODUCT INFORMATION

<b>Packaging</b>	20 litre pails and bulk
<b>Shelf Life</b>	Shelf life when stored in original packaging in dry warehouse conditions between 5 - 35°C is twelve months from the date of manufacture.
<b>Storage Conditions</b>	SikaControl® FD-100 should be stored above 5°C. If frozen, thaw and agitate thoroughly to return to a normal state. Protect from direct sunlight.
<b>Appearance / Colour</b>	Yellowish Liquid
<b>Specific gravity</b>	Approx. 0.890

## APPLICATION INFORMATION

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### Recommended Dosage

The typical dosage rate of SikaControl® FD-100 will vary between 50 - 200 mL / 100 kg of cement or cementitious materials. Various factors will affect the dosage rates.

Trial mixes with the actual materials should be conducted to determine the required dosage for optimum performance.

To the extent specialized materials are used, extreme ambient temperatures are encountered, or for other unusual project conditions, dosage rates outside the typical range may be required. For dosage rates outside the typical range, please contact your local Sika representative or the Sika Technical Services Department at 1-800-933-7452.

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### Dispensing

Measure the required quantity manually or by automated dispenser. Add SikaControl® FD-100 directly into the mixing water or to the freshly mixed concrete at the end of the batching cycle. Do NOT mix with dry cement. SikaControl® FD-100 may be dispensed on-site directly prior to placement. Care must be taken to mix thoroughly. When used in combination with other admixtures, dispense each admixture separately into the mix.

In cases when SikaControl® FD-100 is stored in bulk tanks, periodic checks of dispensing lines are recommended to prevent product leakage. Use only oil resistant gaskets and hoses. SikaControl® FD-100 may cause deterioration of rubber.

**Compatibility:** SikaControl® FD-100 can be used in combination with other Sika admixtures and can be successfully used in mix designs utilizing supplementary cementitious materials.

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## BASIS OF PRODUCT DATA

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.

## LIMITATIONS

SikaControl® FD-100 is not recommended for use in air entrained concrete.

## ECOLOGY HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

## 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.

## 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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

**Sika (NZ) Limited**  
85-91 Patiki Road  
Avondale, Auckland 1026  
New Zealand  
0800 745 269  
www.sika.co.nz



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