

## PRODUCT DATA SHEET

# SikaControl®-101 SR

## SHRINKAGE REDUCING AND COMPENSATING ADMIXTURE

### DESCRIPTION

SikaControl®-101 SR is a shrinkage-reducing and compensating admixture. The effect of the dual-mechanism to control shrinkage allows to produce high-performance concrete with greatly reduced potential for drying shrinkage, cracking and curling.

### USES

SikaControl®-101 SR can be used in any type of cast-in-place or precast/prestressed concrete, grout or any other cementitious mixes. Some of the applications of SikaControl®-101 SR may include:

- In concrete elements which are restrained against shrinkage
- For bridge decks and parking structures
- For durable concrete in marine environments
- For watertight concrete in reservoirs, sewage treatment plants, and dams

### CHARACTERISTICS / ADVANTAGES

- Dual-mechanism control effect on the concrete shrinkage giving predictable and reproducible results.
- Controlled expansion mechanism for producing a volume stable concrete.
- Greatly reduced cracking potential related to autogenous shrinkage.
- Reduces curling and allows for increased joint spacing.
- Reduces porosity and permeability, resulting in improved concrete durability.
- Reduces contraction forces induced from drying shrinkage thus minimizing risks of long-term and unsolicited cracks formation.

### PRODUCT INFORMATION

Packaging	20 kg bags
Appearance / Colour	Powder / Beige
Shelf life	6 months from the date of production
Storage conditions	Stored in original unopened packaging in a cool, dry place
Density	1.21 kg/l

# APPLICATION INFORMATION

<b>Recommended dosage</b>	Dosage of SikaControl®-101 SR might vary from 5 to 10% bwb depending of the required expansion. To produce shrinkage compensate concrete follow the design in accordance with ACI 211.1-89 standard recommended practice for selecting proportions for concrete and use suitable superplasticizer like Sikament® or Sika® Viscocrete® range in addition of SikaControl®-101 SR. Preliminary trials are strongly recommended.
<b>Compatibility</b>	SikaControl®-101 SR may be combined with many other Sika products. Trials must always be carried out before combining products in specific mixes. Contact Sika Technical Services for additional information and any specific combinations. SikaControl®-101 SR is compatible with all types of Portland Cement, including SRC type and Hydraulic Cement.
<b>Dispensing</b>	SikaControl®-101 SR can be added to the concrete along with the other powder components added to the concrete mixer.
<b>Restrictions</b>	The performance of SikaControl®-101 SR is dependent on proper curing practices. To maximize the shrinkage reducing and compensating effects, it is recommended to follow proper curing practices by wet cure only as per ACI 308 recommendations.

## 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.

## 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 Material Safety Data Sheet 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.

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