BUILDING TRUST

PRODUCT DATA SHEET

SikaControl®-50

Shrinkage reducing admixture

DESCRIPTION

SikaControl®-50 is a liquid shrinkage reducing admixture used to produce high performance concrete with greatly reduced drying shrinkage.

USES

SikaControl®-50 is designed for the following applications:
- High-performance concrete
- For concrete where reduced drying shrinkage is important (e.g., large-area surfaces, such as concrete slabs and floors)
- Self-leveling concrete and mortars
- Prestressing grouts
- For waterproof concrete in reservoirs, wastewater treatment plants, and dams.
- For the production of concrete with high resistance to aggressive marine environments and exposure to seawater

FEATURES

The incorporation of SikaControl®-50 into concrete or mortar mixes can reduce the surface tension of water in capillary pores, thereby limiting the shrinkage of the concrete or mortar. SikaControl®-50 does not contain chlorides or other components that may be harmful to steel reinforcement. Consequently, it can be used in reinforced and prestressed concrete.
The use of SikaControl®-50 in concrete or mortar offers the following advantages:
- Significant reduction in drying shrinkage and the resulting cracking
- Limitation of drying shrinkage
- Substantially improved impermeability, resulting in improved concrete durability.
- Can be used for concrete with or without the use of an air-entraining agent

PRODUCT INFORMATION

Packaging	1,000 kg IBC, 200 kg plastic drums, 5 L containers Bulk supply on demand
Appearance and colour	Colourless liquid
Shelf life	36 months from date of production
Storage conditions	Store properly in undamaged, unopened, original sealed packaging, in dry conditions at temperatures between +5 °C and +35 °C. Protect from direct sunlight and frost.
Density	0,935 ± 0,02 (at +20 °C)
Total chloride ion content	≤ 0,1 %
Equivalent sodium oxide	≤ 0,5 %

TECHNICAL INFORMATION

Concreting guidance	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.

APPLICATION INFORMATION

Recommended dosage	0.2 – 5% by weight of cement
Dispensing	SikaControl®-50 is added to the gauging water at the plant or added on-site into the concrete mixer.

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 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.

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