

PRODUCT DATA SHEET

SikaControl®-5 WT AE

Hydrophobic pore-blocking admixture for watertight concrete production

DESCRIPTION

SikaControl®-5 WT AE is an integral admixture which greatly reduces the water absorption of concrete through its pore-blocking and hydrophobic actions. The incorporation of SikaControl®-5 WT AE in the concrete mix ensures its beneficial effects are distributed throughout the matrix, thus enhancing durability. Suitable for use in hot and tropical climatic conditions.

USES

SikaControl®-5 WT AE is the basis of the internationally known Sika Structural Waterproofing System, which is completely suited to most types of concrete structures subjected to water pressure and dampness from internal or external sources.

SikaControl®-5 WT AE is used for

- Water retaining structures
- Tunnels
- Concrete Slabs and foundations
- Concrete Swimming pools
- Concrete Water tanks
- Reservoirs
- Lift pits

- Concrete basements and car parking partially or fully underground
- Below ground structures such as basement, car parks, shelters and other utilities
- Marine structures

CHARACTERISTICS / ADVANTAGES

SikaControl®-5 WT AE waterproof admixture in concrete

has the following advantages:

- Improves significantly concrete water impermeability
- Improves concrete durability
- Reduces ingress of sulfates and carbonation
- Reduces leaching
- Chloride free
- Ammonia Free

APPROVALS / CERTIFICATES

SikaControl®-5 WT AE follows the requirements of EN 934-2 Table 9.

PRODUCT INFORMATION

Composition	Specially selected chemical composition
Packaging	200 L drums and bulk supply in tanker trucks possible on request
Shelf life	12 months minimum from date of production if stored properly in original unopened packaging
Storage conditions	Store in a dry area between 5 °C and 35 °C. Protect from direct sunlight.
Appearance and colour	Clear liquid
Density	~1.003 kg/l (+25°C)
Total chloride ion content	Nil (EN 934-2)

TECHNICAL INFORMATION

Concreting guidance

With the use of SikaControl®-5 WT AE, the standard rules of good concreting practice (production as well as placing) must be observed. Fresh concrete must be cured properly, especially at high temperatures in order to prevent plastic and drying shrinkage. Use Sika Antisol products as a curing agent or apply wet hessian.

APPLICATION INFORMATION

Recommended dosage

SikaControl®-5 WT AE is dosed at a recommended dosage of 0.2 – 1.0 litres per 100 kg cement. However, the optimum dosage to meet project requirements must be determined through trial mixes. SikaControl®-5 WT AE is compatible with all types of Portland cement including Sulphate Resistant Cement (SRC) and blended cements.

Dispensing

SikaControl®-5 WT AE should be added directly to freshly mixed concrete in the concrete mixer at the end of the batching cycle or along with the mix water. The concrete should be mixed thoroughly until a homogenous concrete mix is produced.

- Recommended minimum cement content is 380 kg/m³ including PFA, GGBS, and Silicafume.
- Recommended water/cement ratio <0.45.
- SikaControl®-5 WT AE has no significant water reducing or slump keeping properties.
- Do not add SikaControl®-5 WT AE to dry cement.

Compatibility

SikaControl®-5 WT AE may be combined with the following Sika products:

- All types of cement
- Sika Pump
- Sika FerroGard-901 (Plus)
- Sika Control 40 (shrink reducing admixture)
- All normal types of retarders, retarders, plasticizers and superplasticisers. i.e. Plastiment, Sikament, SikaPlast, Sika ViscoCrete
- Combination with Pozzolanic Materials, such as silica fume, fly ash and GGBS.

Consult Sika Technical Services Department for more information.

BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

IMPORTANT CONSIDERATIONS

When using SikaControl®-5 WT AE a suitable mix design must be selected and local material sources should be trialed.

SikaControl®-5 WT AE must not be added to dry cement. Before pouring, suitability tests on the fresh concrete must be carried out due to the extended workability, take special care that formwork is properly installed and secured.

Please refer to relevant standards and information for the design and implementation of watertight concrete structures (white box concept).

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

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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ISO 9001: Sika UAE LLC,
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Sika Gulf B.S.C. (C),
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All products are supplied under
a management system certified
to conform to the requirements
of the quality, environmental
and occupational health &
safety standards: ISO 9001,
ISO 14001 and ISO 45001.

SikaControl-5WTAE-en-AE-(09-2022)-2-1.pdf

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September 2022, Version 02.01
021403011000000181