

## PRODUCT DATA SHEET

# SikaControl®-225 WT CWA

## HIGH PERFORMANCE DUAL MECHANISM LIQUID CRYSTALLINE WATERPROOFING ADMIXTURE

### DESCRIPTION

SikaControl®-225 WT CWA, a high-performance dual mechanism liquid crystalline waterproofing admixture. It is an integral waterproofing admixture concrete and designed for use in below and above grade applications.

SikaControl®-225 WT CWA consists of various active, proprietary chemicals. One of these chemicals reacts with the hydration products of cement to generate additional calcium silicate hydrates (CSH) to impart higher impermeability and additional strength to the concrete. These active chemicals also act as pore-blocker and reduce the porosity of concrete.

### USES

SikaControl®-225 WT CWA can be used in all structural concrete which are constantly or intermittently in contact with water such as sea walls, tunnels, basements, structural and precast concrete.

SikaControl®-225 WT CWA can also be used as crystalline waterproofing admixture for cement mortars and plasters. The following are the typical applications and structures to be waterproofed:

- Sewage and water treatment plants.
- Liquid retaining structures.
- Water reservoirs and tanks for potable water.

- Swimming pools.
- Foundations, basements, lift pits, podiums, balconies and roofs.
- Parking structures.
- Precast, pre-stressed and post-tensioned concrete
- Culverts.
- Tunnel and subway systems.
- Shotcrete.
- Concrete subjected to wet, harsh and aggressive environments.

### FEATURES

- Liquid Crystalline material.
- Integral addition.
- Reduces concrete permeability.
- Allows concrete to breathe.
- Non toxic.
- Becomes an integral part of the concrete.
- Reduces penetration of water and other liquids.
- Resists positive and negative side hydrostatic Pressure.
- Protects against sewage and industrial wastes.
- Less expensive than traditional waterproofing methods.
- Added to the concrete at time of batching and therefore is not subject to climatic constraints.

### PRODUCT INFORMATION

<b>Composition</b>	minerals and additives
<b>Packaging</b>	205 L drums (non-returnable), 20 L Jerrycan
<b>Appearance and colour</b>	Light red/pink liquid
<b>Shelf life</b>	12 months from date of production if stored properly in undamaged unopened, original sealed packaging.
<b>Storage conditions</b>	Store in dry conditions at temperatures between +10 °C and +35 °C. Protect from direct sunlight and frost.

## TECHNICAL INFORMATION

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<b>Concreting guidance</b>	The standard rules of good concreting practice, concerning production and placing, are to be followed. As curing affect watertightness of the concrete, care should be taken to ensure proper curing. When concrete has hardened and finishing completed, a curing compound such as Antisol® shall be applied at the recommendation rate (refer to the respective product data sheets).
<b>Specific advice</b>	SikaControl®-225 WT CWA has been formulated for use in concrete with a minimum cement content of 360 kg/m <sup>3</sup> and a maximum w/b-ratio of 0.45. Laboratory trials are always recommended to evaluate and confirm actual water reduction and consistence class.
<b>Chloride ion diffusion resistance</b>	SikaControl®-225 WT CWA will neither initiate nor promote corrosion of reinforcing steel embedded in concrete, prestressed concrete or concrete placed on galvanized steel floor and roof systems. Neither calcium chloride nor any calcium chloride-based ingredients are used in the manufacture of SikaControl®-225 WT CWA. In all concrete applications, SikaControl®-225 WT CWA will conform to the most stringent or minimum chloride ion limits currently suggested by construction industry standards and practices.

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## APPLICATION INFORMATION

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<b>Recommended dosage</b>	0.8 – 1.0 % of SikaControl®-225 WT CWA by weight of cement
<b>Compatibility</b>	<p>SikaControl®-225 WT CWA may be combined with many other Sika products:</p> <ul style="list-style-type: none"><li>-Sika®ViscoCrete®series</li><li>-Sikament®series</li><li>-Sika Plastiment® and Sika Plastocrete® series</li><li>-SikaFume®.</li></ul> <p>Concrete containing SikaControl®-225 WT CWA is recommended to use 100% Ordinary Portland Cement (OPC) as the sole cementitious binder. If supplementary cementitious materials (SCM) are used, their total content shall be limited to a maximum of 30% by mass of the total cementitious material.</p> <p>Note: Always conduct trials before combining products in specific mixes and contact our Sika® technical service for more information and advice</p>
<b>Dispensing</b>	<p>For addition information on SikaControl®-225 WT CWA or on its use in developing concrete mixes with special performance characteristics. Points to remember when producing waterproof concrete:</p> <ul style="list-style-type: none"><li>▪Ensure water/cement ratio is less than 0.45.</li><li>▪Addition of good superplasticizer from the Viscocrete or Viscoflow range is advised to achieve minimum water/cement ratio.</li><li>▪Place concrete quickly and compact it well.</li><li>▪Ensure complete curing with an Antisol curing compound.</li></ul> <p>SikaControl®-225 WT CWA admixture is batched at the concrete production plant in a manner similar to that for liquid-based admixtures or similar liquids. It may be batched in either a central or truck mixer. Follow the procedures outlined in ASTM C94/C94M, Standard Specification for Ready-Mixed Concrete, for general batching and mixing instructions for concrete if adding to a truck mixer. Provide at least 5 minutes of mixing after the addition of SikaControl®-225 WT CWA admixture to ensure thorough and uniform distribution of the admixture in the concrete mixture.</p>

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## 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.

## 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

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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