

PRODUCT DATA SHEET

SikaControl®-1500 WT

(formerly MasterLife® WP 1500)

High Performance Dual Mechanism Liquid Crystalline Waterproofing Admixture

DESCRIPTION

SikaControl®-1500 WT is a high-performance, dual mechanism liquid crystalline waterproofing admixture. It is an integral waterproofing admixture for concrete and designed for use in below and above grade applications.

USES

SikaControl®-1500 WT can be used in all structural concrete which are constantly or intermittently in contact with water such as sea walls, tunnels, basements, structural and pre-cast concrete. The following are the typical applications and structures to be water-proofed:

- 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 environment

SikaControl®-1500 WT can also be used as crystalline waterproofing admixture for cement mortars and plasters.

CHARACTERISTICS / ADVANTAGES

- 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
- Can seal cracks up to 0.4 mm.
- 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

Packaging	26 kg pail, 280kg drum and 1400kg IBC
Shelf life	12 months from date of production if stored properly in undamaged unopened, original sealed packaging.
Storage conditions	Store in cool and dry conditions at temperatures above +5°C. Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging.
Appearance / Colour	grey-brown liquid
Specific gravity	1.30 - 1.45

APPLICATION INFORMATION

Recommended Dosage	As a guide, a dosage of 1% of cementitious content is recommended. Dosage up to 2% can be used in special requirements.
Dispensing	SikaControl®-1500 WT 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®-1500 WT admixture to ensure thorough and uniform
Compatibility	SikaControl®-1500 WT admixture can be used with portland cements approved under ASTM and EN specifications. It is compatible with most concrete admixtures. SikaControl®-1500 WT admixture is recommended for use with high-range water reducing admixtures, such as the Sika ViscoCrete series, for maximum workability while maintaining a low water-to-cementitious materials ratio. SikaControl®-1500 WT is also compatible with slag and pozzolans such as fly ash, GGBS and silica fume.

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.

FURTHER DOCUMENTS

Setting Time: SikaControl®-1500 WT admixture has little to no effect on concrete setting time within the recommended dosage range. However, it is recommended to test this in case any additives or blended cementitious combinations are used in concrete.

Workability: SikaControl®-1500 WT has little or no effect on workability of concrete. Prior site trials are advised to assess the effect, and any increase or decrease in the workability can be adjusted by adjusting the admixture dosage or amount of water in use. It is strongly recommended that concrete should be properly cured particularly in hot, windy and dry climates.

IMPORTANT CONSIDERATIONS

Points to remember when producing waterproof concrete:

- Ensure water/cement ratio is less than 0.5
- Addition of good superplasticizer from the Sika ViscoCrete range is advised to achieve minimum water/cement ratio.
- Place concrete quickly and compact it well.
- Ensure complete curing with a Sika Antisol curing compound.

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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

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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