

PRODUCT DATA SHEET

SikaControl[®]-730 W WT

(formerly MasterLife[®] WP 730W)

Hydrophobic pore-blocking admixture for watertight concrete production

DESCRIPTION

SikaControl[®]-730 W WT is a hydrophobic poreblocking admixture for concrete. It significantly reduces water absorption of concrete through its pore-blocking and hydrophobic actions. SikaControl[®]-730 W WT reacts with the cement hydration process to form a hydrophobic ingredient to reduce the capillary suction and prevent the ingress of potentially deleterious soluble material, resulting in concrete with enhanced durability.

Suitable for use in hot and tropical climatic conditions.

USES

SikaControl[®]-730 W WT is suited to most concrete structures that are subjected to water pressure and dampness from internal or external sources such as:

- Basement walls and floors
- Tunnels / underpass
- Foundations, piles and pile caps
- Water retaining structures, swimming pools, water tanks, reservoirs, water towers

- Land drainage, manholes
- Reinforced concrete in marine environment subject to tidal and wet / dry cycling
- Waste water treatment and desalination plant

FEATURES

SikaControl[®]-730 W WT 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

CERTIFICATES AND TEST REPORTS

SikaControl[®]-730 W WT follows the requirements of EN 934-2 Table 9

PRODUCT INFORMATION

Composition	Specialty selected chemical composition
Packaging	210 L drums
Shelf life	9 months from date of production if stored properly
Storage conditions	Store in undamaged, unopened, original sealed packaging in dry conditions at temperatures between +5°C and +35°C. Protect from direct sunlight.
Appearance and colour	Clear to pale yellow liquid
Density	~1.03 kg/l (+25°C)
Total chloride ion content	Nil (EN 934-2)

TECHNICAL INFORMATION

Concreting guidance	<p>The standard rules of good concreting practice for production and placing must be observed when using SikaControl®-730 W WT in concrete. Refer to relevant standards.</p> <p>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.</p>				
Concrete mix design	<p>We recommend the following base criteria for design of a concrete mix containing SikaControl®-730 W WT:</p> <table><tr><td>Minimum binder content:</td><td>380 kg/m³ (including PFA, GGBS, and Silicafume)</td></tr><tr><td>Water / binder ratio:</td><td><0.45</td></tr></table>	Minimum binder content:	380 kg/m ³ (including PFA, GGBS, and Silicafume)	Water / binder ratio:	<0.45
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Water / binder ratio:	<0.45				

APPLICATION INFORMATION

Recommended dosage	<p>1.0 - 2.0 % by weight of binder</p> <p>Higher dosages by weight of binder can be used depending on the mix design, raw materials, climatic conditions and concrete requirements.</p> <p>Trial mixes must be performed to establish the exact dosage rate required.</p>
Dispensing	<p>SikaControl®-730 W WT is added to the gauging water or simultaneously poured with it into the concrete mixer at the batching plant.</p> <p>Do not add SikaControl®-730 W WT directly to the dry mix. Optimal result is obtained if SikaControl®-730 W WT is poured into the concrete mix right after the addition of the first 80% of the mixing water, i.e. when all solids are wetted.</p>
Compatibility	<p>SikaControl®-730 W WT may be combined with all types of Portland cement, concretes containing pozzolanic materials such as: GGBS (Ground Granulated Blast Furnace Slag), Fly Ash (PFA), Micro Silica (Silica Fume) and the following Sika product ranges / admixtures:</p> <p>Sika® Plasticisers: Sika® ViscoCrete®, SikaPlast®, Sikament®, Plastiment® SikaFiber®, Sika Aer®, SikaPump®, Sika® FerroGard®, Sika® Control.</p> <p>We recommend to perform trial mixes to establish the required performance when combining SikaControl®-730 W WT with the above or other admixtures.</p> <p>Please consult our Sika Technical Department.</p>

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.
- Internal Reference - Version: MBS_CC-UAE/Life_WP730W_09_20

IMPORTANT CONSIDERATIONS

Before pouring suitability tests on the fresh concrete must be carried out. Take special care that formwork is properly installed and secured.

If frozen and/or if precipitation has occurred, it may only be used after thawing slowly at room temperature and intensive mixing.

When using SikaControl®-730 W WT a suitable concrete mix must be designed for the local material sources and trial mixes performed to verify suitability.

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, 14001, 45001 – SGS
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- Sika MB Construction Chemicals LLC
- Master Builders Solutions LLC

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.



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