

PRODUCT DATA SHEET

SikaControl®-740 WT

(formerly MasterLife® WP 740)

INTEGRAL WATERPROOFING ADMIXTURE FOR MORTAR AND CONCRETE

DESCRIPTION

SikaControl®-740 WT is based on hydrophobic pore-blocking and waterproofing ingredients. It reduces concrete water absorption and permeability. SikaControl®-740 WT reacts with the cement hydration process to form a hydrophobic ingredient to reduce the capillary suction and prevent the ingress of potentially deleterious water soluble materials resulting in concrete with enhanced durability. Suitable for use in hot and tropical climatic conditions.

USES

SikaControl®-740 WT is suitable for concrete structure, requiring water tightness, such as:

- Basement walls and floors
- Tunnels / underpass
- Foundations, piles and pile caps
- Water retaining structures, swimming pool, water tanks, reservoirs, water towers
- Reinforced concrete in marine environment subject to tidal and wet / dry cycling
- Waste water treatment and desalination plant

FEATURES

SikaControl®-740 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®-740 WT follows the requirements of ASTM C494 Type S and EN 934-2.

PRODUCT INFORMATION

Composition	Blend of organic and inorganic chemicals
Packaging	8 kg bags
Shelf life	12 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 +50°C. Protect from moisture.
Appearance and colour	Off white powder
Density	~0.80 kg/l (+25 °C)
Total chloride ion content	Nil (EN 934)

TECHNICAL INFORMATION

Concreting guidance

The standard rules of good concreting practice for production and placing must be observed when using SikaControl®-740 WT in concrete. Refer to relevant standards.

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

1 - 2 % by weight of binder.

Other dosages by weight of binder can be used depending on the mix design, raw materials, climatic conditions and concrete requirements.

Trial mixes must be performed to establish the exact dosage rate required.

Dispensing

The required quantity of SikaControl®-740 WT should be accurately measured and added during the mixing process either manually or mechanically either to the aggregates or directly to the mixer.

Compatibility

SikaControl®-740 WT is suitable for mixes containing all types of cement and supplementary cementitious materials such as: Microsilica (Silica Fume), Fly Ash (PFA), GGBS (ground granulated blast furnace slag) and the following Sika products:

SikaPlast®, Sika® ViscoCrete®, Sikament®, Plastiment®, SikaPump®, Sika® FerroGard®, SikaFume®, SikaFiber®, Sika® Aer, Sika® Stabilizer, SikaControl®

We recommend to perform trial mixes to establish the required performance when combining SikaControl®-740 WT with the above products or other admixtures. Please consult our Sika Technical Department.

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/Br_4000_03_01/v2/10_15/v3/09_19

IMPORTANT CONSIDERATIONS

When using SikaControl®-740 WT a mix design must be selected for the local material sources used and trial mixes shall be performed to verify the suitability. Before pouring concrete, suitability tests on the fresh concrete must be carried out and special care shall be taken insuring that formwork is properly installed and secured to prevent grout loss and possible honeycombs.

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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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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