

## **BUILDING TRUST**

## PRODUCT DATA SHEET

# SikaControl®-3760 WT

(formerly MasterLife® WP 3760)

Crystalline waterproofing admixture for concrete and mortars

## **DESCRIPTION**

SikaControl®-3760 WT hydrophilic crystalline powder admixture which becomes an integral part of concrete and is used to produce waterproof concrete. It is designed for use in above-grade and below-grade applications.

SikaControl®-3760 WT consists of portland cement, very fine treated silica sand and various active, proprietary chemicals. These active chemicals react with the moisture in fresh concrete with the by-products of cement hydration to cause a reaction, which generates an insoluble crystalline deposit throughout the pores and capillary tracts of the concrete. SikaControl®-3760 WT reduces water permeability of concrete structures and improves self-healing property in presence of moisture.

Suitable to use in hot and tropical climatic conditions.

## **USES**

SikaControl®-3760 WT can be used in all structural concrete that is constantly or intermittently in contact with water such as sea walls, tunnels, basements, structural and pre-cast concrete. SikaControl®-3760 WT can also be used as crystalline waterproofing admixture for cement mortars and plasters.

SikaControl®-3760 WT can be used to waterproof

structures such as:

- Building basement and foundations
- Sewage and water treatment plants
- Dams, canals, tunnels, harbours
- Tunnel and subway systems
- Water reservoirs
- Concrete pipes
- Parking structures
- Pre-cast, cast-in-place and shotcrete applications
- Swimming pools
- Retaining walls and sea defense walls

## **FEATURES**

- Integral addition
- Reduces concrete permeability
- Non toxic
- Becomes an integral part of the concrete
- Reduces water penetration under pressure
- Protects against sewage and industrial wastes
- Cost efficient compared to traditional methods

## **CERTIFICATES AND TEST REPORTS**

SikaControl®-3760 WT is categorized as PRAH within ACI 212.3R-10 "Report on Chemical Admixtures for concrete" (Permeability reducing admixtures)

## PRODUCT DATA SHEET

**SikaControl®-3760 WT**March 2024, Version 02.01
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## **PRODUCT INFORMATION**

Composition	Cement, fillers and alkaline salts
Packaging	16 kg and 25 kg bag
Shelf life	12 months from date of production if stored properly
Storage conditions	Store in undamaged, unopened, original sealed packaging in dry condition at temperatures between +5°C and +50°C. Protect from moisture.
Appearance and colour	Grey powder
Bulk density	~1.3 g/cm³ at 25°C
Total chloride ion content	Nil (EN 934

Concreting guidance	Points to remember when producing waterproof concrete:  • Ensure water / cement ratio is less than 0.5  • Addition of superplasticiser from the Sikament®, SikaPlast® or Sika® ViscoCrete® range is advised to achieve minimum water/cement ratio.  • Good concrete practice as per ACI standards regarding mixing, placing and curing.  • Use Sika® Antisol® products as a curing agent or apply wet hessian.
Effect on setting	SikaControl®-3760 WT admixture has minor 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.

## **APPLICATION INFORMATION**

Recommended dosage	1 % by weight of binder.  Dosage up to 2 % by weight of binder can be used depending on the mix design, raw materials, climatic conditions and concrete requirements.  To ready mix concrete, a typical dosage of 5 kg per cubic meter of concrete is recommended. However, the optimum dosage to meet project
Dispensing	requirements must be determined through trial mixes.  SikaControl®-3760 WT should be added within the recommended dosage. 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®-3760 WT admixture to ensure thorough and uniform distribution of the admixture in the concrete mixture.
Compatibility	SikaControl®-3760 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®-3760 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/ Life\_WP3760\_11\_15/v1/v3/09\_21/v4/11\_21/v5/ 02\_23/v6/04\_23

## **IMPORTANT CONSIDERATIONS**

SikaControl®-3760 WT 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 Sika-Control®-3760 WT. In all concrete application, Sika-Control®-3760 WT will conform to the most stringent or minimum chloride ion limits currently suggested by construction industry standards and practices. SikaControl®-3760 WT has minor 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

It is strongly recommended that concrete should be properly cured particularly in hot, windy and dry climates.

## **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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