

PRODUCT DATA SHEET

SikaControl®-707 WT

(formerly MLife WP 707)

WATERPROOFING ADMIXTURE FOR CONCRETE

DESCRIPTION

A liquid admixture for concrete to give high water resistance, based upon a blend of surface active agents and refined lignosulphonate. Suitable for use in hot and tropical climatic conditions.

USES

SikaControl®-707 WT is recommended for use in structural and mass concrete particularly for water-retaining structures wherever waterproof concrete is required such as:

- Reservoirs and dams
- Sewage treatment plants
- Canals
- Culverts
- Tunnels
- Swimming pools
- Concrete water tanks

FEATURES

- Concrete containing SikaControl®-707 WT significantly improves resistance to water penetration under conditions of hydrostatic pressure or capillary absorption
- Durability is increased due to a significant reduction in w/c ratio
- Sulphate attack is reduced due to the sulphate bearing ground water being resisted
- The cohesive properties of the concrete are improved thus reducing segregation and bleeding
- Concrete of similar workability to a control mix produced with SikaControl®-707 WT, is easier to place
- Pumpability of concrete is greatly improved
- The surface finish of the concrete is improved

CERTIFICATES AND TEST REPORTS

SikaControl®-707 WT follows the requirements of ASTM C494; Type B and D and EN 934-2

PRODUCT INFORMATION

Composition	Specialty selected chemical composition
Packaging	210 L drum, 1000 L flowbin
Appearance and colour	Dark brown liquid
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 +50°C. Mix well before using.
Density	~1.17 kg/l (+25°C)
Total chloride ion content	Nil (EN 934-2)

TECHNICAL INFORMATION

Concreting guidance

The standard rules of good concreting practice for production and placing must be observed when using SikaControl®-707 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

0.2 - 0.6 % 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.

Compatibility

SikaControl®-707 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

We recommend to perform trial mixes to establish the required performance when combining SikaControl®-707 WT with the above products or other admixtures. Please consult our Sika Technical Department.

Dispensing

SikaControl®-707 WT is a ready-to-use admixture to be added to the concrete as a separate component. Optimal result is obtained if SikaControl®-707 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.

Avoid adding the admixture to the dry aggregates.

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.

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®-707 WT a suitable concrete mix must be designed for the local material sources and trial mixes should be performed to verify suitability.

When accidental overdosing occurs the set retarding effect and workability increases. Additional air may also be entrained. During this period the concrete must be kept moist in order to prevent premature drying out.

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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ISO 9001, 14001 – SGS
- Sika Saudi Arabia Limited
ISO 9001, 14001 – TÜV
- Sika MB Construction Chemicals LLC
- Sika Construction Chemicals for Manufacturing 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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