BUILDING TRUST

PRODUCT DATA SHEET

SikaControl®-1200 WT

Crystalline Waterproofing Admixture for Concrete and Mortars

DESCRIPTION

SikaControl®-1200 WT crystalline waterproofing liquid admixture is an integral crystalline capillary waterproofing admixture for concrete. It is designed for use in above- and below-grade applications.
SikaControl®-1200 WT consists of 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. These crystalline hydration products are deposited and fill the pores and hairline cracks, effectively reduce the permeability of concrete, its capillary absorption and penetration of water and other liquids into the concrete.
The concrete with SikaControl®-1200 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®-1200 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®-1200 WT can also be used as crystalline waterproofing admixture for cement mortars and plasters.

SikaControl®-1200 WT can be used to enhance the waterproofing properties of 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
- Can seal hairline cracks up to 0.5 mm
- Reduces water penetration under pressure
- Protects against sewage and industrial wastes
- Cost efficient compared to traditional methods

CERTIFICATES AND TEST REPORTS

SikaControl®-1200 WT is a categorized Integral Permeability-reducing crystalline admixture for hydrostatic conditions (PRAH) as defined by ACI 212.3R Chapter 15 and BS EN 934, with established durability and water-tightness performance.

PRODUCT INFORMATION

Composition	Various active chemicals
Packaging	200 L drum,1,000 L flowbins, or bulk supply in tanker trucks
Appearance and colour	Clear to cloudy liquid
Shelf life	6 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.
Density	~1.09 kg/l (+25°C)
Total chloride ion content	Nil (EN 934-2)

TECHNICAL INFORMATION

Concreting guidance	Points to remember when producing concrete with enhanced waterproofing properties: ▪ 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®-1200 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	1–2.5 % by weight of binder. Dosage depends on the mix design, raw materials, climatic conditions and concrete requirements. To ready mix concrete, a typical dosage of 6-7 kg per cubic meter of concrete is recommended. However, the optimum dosage to meet project requirements must be determined through trial mixes.
Compatibility	SikaControl®-1200 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®-1200 WT with the above products or other admixtures. Please consult our Sika Technical Department.
Dispensing	SikaControl®-1200 WT admixture is batched at the concrete production plant in a manner similar to admixtures. 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®-1200 WT admixture to ensure through and uniform distribution of the admixture in the concrete mixture.

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

- SikaControl®-1200 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 SikaControl®-1200 WT. In all concrete application, SikaControl®-1200 WT will conform to the most stringent or minimum chloride ion limits currently suggested by construction industry standards and practices.
- SikaControl®-1200 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 properly cured particularly in hot, windy and dry climates.

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.

Sika Gulf B.S.C. (c)
Tel: +973 177 38188
Email: info@bh.sika.com
Sika Kuwait Cons. Mat. & Paints Co WLL
Tel: +965 22 282 296
Email: sika.kuwait@kw.sika.com
Web: gcc.sika.com

Sika UAE LLC
Sika UAE LLC (Branch)
Sika International Chemicals LLC
Tel: +971 4 439 8200
Email: info@ae.sika.com
Web: gcc.sika.com

Sika Saudi Arabia Limited
Riyadh / Jeddah / Dammam / Rabigh
Tel: +966 9200 22167
Email: info@sa.sika.com
Web: gcc.sika.com

Sika MB LLC
Oman
Tel. +968 22 826 500
Email: info@om.sika.com
Web: gcc.sika.com

ISO 9001, 14001, 45001 – SGS:
- Sika UAE LLC
- Sika International Chemicals LLC
- Sika Gulf B.S.C. ©
ISO 9001, 14001 – SGS:
- Sika Saudi Arabia Limited
ISO 9001, 14001 – TÜV:
- Sika UAE LLC (Branch)
ISO 9001 – URS:
- Sika MB 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.