BUILDING TRUST

PRODUCT DATA SHEET

Sika® WT-200 P

WATER RESISTING AND CRYSTALLINE WATERPROOFING CONCRETE ADMIXTURE

PRODUCT DESCRIPTION

Sika® WT-200 P is a combined water resisting and crystalline waterproofing admixture used to reduce the permeability of concrete and to enhance the self-healing abilities of the concrete.

USES

Sika® WT-200 P has been specifically formulated to produce high quality waterproof concrete. Sika® WT-200 P treated concrete is used as a part of the Sika® Watertight Concrete System.
Sika® WT-200 P can be used in any below / in / above ground watertight structures such as:
- Basements
- Parking garages
- Utility / plant rooms
- Tunnels
- Swimming pools
- Water retaining structures
- Dams
- Waste water treatment structures
- Underground commercial facilities (malls, transportation hubs etc.)

CHARACTERISTICS / ADVANTAGES

Sika® WT-200 P consists of a mixture of cements, amino alcohols and fillers. These active materials will form non-soluble materials throughout the pore and capillary structure of the concrete and seal the concrete permanently against penetration of water and other liquids. In addition the special formula and ingredients of Sika® WT-200 P enhances the self-healing properties of concrete and will improve the ability to heal cracks in concrete.
Sika® WT-200 P has the following characteristics and benefits:
- Reduced water penetration under pressure
- Reduced water absorption
- Enhancement of self-healing properties of the concrete
- Improvement in resistance against chemical attack
- Reduced vapour transmission

APPROVALS / STANDARDS

Conforms to the requirements of BS EN 934-2 Table 9 DoP 02 14 03 01 100 0 000094 1088, certified by Factory Production Control Body 0086, Certificate 541325, and provided with the CE mark

PRODUCT INFORMATION

Chemical Base	Mixture of cements, amino alcohols and fillers
Packaging	1.75 kg soluble bags
Appearance / Colour	Greyish powder
Shelf Life	12 months from date of production if stored in unopened and undamaged original sealed containers.
Storage Conditions	Storage at temperatures between 5 °C and 30 °C. Protect from direct sunlight, moisture, frost and contamination.
Bulk Density	~750 kg/m³
pH-Value	~12 (dispersed in water)

Total Chloride Ion Content	< 0.1 M-%
Equivalent Sodium Oxide	≤ 3%

TECHNICAL INFORMATION

Concreting guidance	The standard rules of good concreting practice, concerning production and placing, are to be followed. Laboratory trials shall be carried out before concreting on site, especially when using a new mix design or producing new concrete components. Fresh concrete must be cured properly and curing applied as early as possible.
Concrete Mix Design	▪ For waterproof concrete: Concrete mix design depends on local requirements and / or local standards for watertight concrete systems. ▪ For Sika® Watertight Concrete: Sika® WT-200 P has been formulated for use in concrete with a minimum binder content of 350 kg/m³ and a maximum w/b-ratio of 0.45. Depending on the specific mix design the dosage of HRWR/superplasticizer has to be evaluated in order to achieve a S3 / F4 consistence class (EN 206-1). ▪ Laboratory trials are always recommended to evaluate and confirm actual water reduction and consistence class.
Effect on Setting	The chemical and physical composition of the components, concrete, Sika® WT-200 P and concrete and ambient temperature can affect the setting time of the concrete.

APPLICATION INFORMATION

Recommended Dosage	2 x 1.75kg bags of Sika® WT-200 P per m³
Compatibility	Sika® WT-200 P may be combined with many other Sika products. Note: Always conduct trials before combining products in specific mixes and contact Sika technical service for more information and advice.
Dispensing	▪ Forced action and truck mixers should be free from all contaminants prior to the batching of concrete containing Sika® WT-200 P. ▪ Sika® WT-200 P should be added to the mixer at the recommended dose (2 bags per m3) prior to the batching of concrete. ▪ Batched concrete mix constituents should be subsequently batched on to the Sika® WT-200 PP in accordance with Sika® mix design recommendations. ▪ Additional mixing water should then be dispensed to bring the concrete to the desired consistence. ▪ On completion of the batching procedure the concrete load should be mixed in the truck mixer/agitator on full revolutions for a minimum of 5 minutes to ensure that the optimum consistence has been achieved. ▪ The w/c ratio and consistence control remains the responsibility of the concrete producer. Laboratory trials are recommended to evaluate and confirm the actual water reduction.
Restrictions	Sika® WT-200 P may be used in combination with all cement combinations (maximum GGBS replacement 75%).

LIMITATIONS

When using Sika® WT-200 P a suitable mix design has to be taken into account and local material sources shall be tested.
Support from our Technical Department is recommended.

VALUE BASE

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

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.

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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