

PRODUCT DATA SHEET

Sika® WT-200 P

Water Resisting and Crystalline Waterproofing Concrete Admixture

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.)

PRODUCT INFORMATION

Composition	Mixture of cements, amino alcohols and fillers
Packaging	1.75 kg soluble bags
Appearance and 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/m ³
Equivalent sodium oxide	≤ 3%

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 / CERTIFICATES

Conforms to the requirements of EN 934 – 2, Table 9

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	<ul style="list-style-type: none">▪ 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	1–2 % of Sika® WT-200 P by weight of binder
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	<ul style="list-style-type: none">▪ 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	When using of Sika® WT-200 P in combination with SCM the SCM content should be limited to max. 40 % of total binder content. (Fly ash / GGBFS / Silica fume).

BASIS OF PRODUCT DATA

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.

IMPORTANT CONSIDERATIONS

When using Sika® WT-200 P a suitable mix design has to be taken into account and local material sources shall be tested.

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

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

LEGAL NOTES

Any information or suggestions for use concerning Sika's products, which we either in writing or orally have given buyers or end-users of the product, have been given in good faith based on our own experiences and based on approved praxis and the technological and scientific knowledge on the time of giving such suggestions and information, which are given without any type of guarantees, and which do not lead to any further responsibility from Sika Danmark A/S, besides what is stated in the sales agreement in question. The buyer or end-user should themselves investigate or otherwise make sure, that our products are suitable for the use in question and further make sure that the products are kept and used correct and in agreement with the published rules and considering the actual conditions in order to avoid damages or less satisfactory results. Any order is accepted and any deliverance is affected according to the general terms of sales and delivery from Sika Danmark A/S, which are considered known and accepted, and which could be handed out when asked for. Our catalogues are not up-dated automatically. The present product data sheet is only for use in Denmark. Values stated in the present product data sheet should be seen as recommended, unless stated otherwise.

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