

PRODUCT DATA SHEET

SikaControl®-200 WTPIN

Integral Crystalline Admixture for producing Ultra Durable and Watertight concrete

DESCRIPTION

SikaControl®-200 WTPIN is a hydrophilic crystalline capillary permeability reducing and durability enhancing admixture for concrete and mortar. It is highly effective for below and above grade applications. When admixed into concrete, the active ingredients in SikaControl®-200 WTPIN react with water to form insoluble crystals, that line the pores and micro-capillaries of concrete, thus reducing permeability and preventing the ingress of water & water borne contaminants. SikaControl®-200 WTPIN is categorized as Permeability reducing admixture for Hydrostatic conditions "PRAH" as per ACI 212.3R-10, Report on chemical admixtures for concrete.

USES

SikaControl®-200 WTPIN is best suited where an enhanced service life of structure is expected. It should be used in all concrete that is constantly or intermittently in contact with water; and concrete exposed to highly corrosive environments. SikaControl®-200 WTPIN can also be used as crystalline waterproofing admixture for cement mortars and plasters. To waterproof structures such as:

- Sewage and Water Treatment plants
- Foundations, Basements, Lift Pits, Podiums, Balconies and Roofs
- Pre-cast, Pre-Stressed and Post-tensioned concrete
- Tunnel and Subway systems
- Shotcrete
- Dams, Canals, Tunnels, Harbors
- Concrete subject to wet, harsh and aggressive environments

PRODUCT INFORMATION

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| Packaging | SikaControl®-200 WTPIN is available in 20kg pack. |
| Appearance / Colour | Free Flowing grey powder |

CHARACTERISTICS / ADVANTAGES

- Superior crack self-healing capability
- High resistance to water ingress – renders concrete watertight
- Lowers overall waterproofing costs
- Protects concrete from waterborne corrosive agents like chlorides and carbon dioxide.
- Effective in reducing shrinkage cracks
- Crystal forming ingredient remains dormant - is re-activated by contact with water.
- Equally effective against both positive and negative water pressure or osmotic pressure.

APPROVALS / STANDARDS

ASTM C494/494m – Type S/DIN 1048 – Part 5 / EN 12390-8/ASTM C1202-05 / ASTM C1556-4

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| Shelf life | Shelf life is 6 months |
| Storage conditions | SikaControl®-200 WTPIN must be stored where temperatures do not drop below +5°C. Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage advice consult your local Sika representative. |
| Bulk density | 1.16 ± 0.02 gm/cm3 |
| Conventional dry material content | > 99.5% |
| Total chloride ion content | < 0.1% by mass |

APPLICATION INFORMATION

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| Recommended Dosage | As a guide, a dosage of 800-1000 grams per 100kg of cement content is recommended. Dosage up to 2000 grams per 100 kg of cement content can be used in special requirements. For addition information on SikaControl®-200 WTPIN or on its use in developing concrete mixes with special performance characteristics, contact your local Sika representative. Points to remember when producing waterproof concrete: Ensure water / cement ratio is less than 0.5 Addition of good plasticizer from the SikaPlast/Sika ViscoCrete range is advised to achieve minimum water/cement ratio. Place concrete quickly and compact it well. Ensure complete curing with a Sika Antisol curing compound. |
| Compatibility | SikaControl®-200 WTPIN is compatible with most admixtures used in the production of quality concrete including normal, other mid-range and high-range water-reducing admixtures, air entrainers, accelerators, retarders, extended set-control admixtures, corrosion inhibitors, and shrinkage reducers. SikaControl®-200 WTPIN is also compatible with slag and pozzolans such as fly ash and silica fume |
| Dispensing | SikaControl®-200 WTPIN is a ready-to-use powder which is dispensed into the concrete together with the cement. Following sequence of mixing shall enable best performing waterproofing mix: Batch course aggregates Batch fine aggregates Batch cement & mineral admixtures Sprinkle SikaControl®-200 WTPIN Dry mix for 1 to 2 minutes to achieve even dry mixture. Add gauging water admixed with plasticizer (if required) and continue mixing to even consistency of the mix. In case of addition at the batching plant, use required dosage per cubic meter and add separately after introducing all other mix ingredients in the mixer and ensure uniform mixing. The addition of SikaControl®-200 WTPIN to gauging water is not recommended. |

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.

refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall

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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