SIDHYA ASIA
CHEMICAL PRIVATE LIMITED

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PRODUCT DATA SHEET

Sidhya® Crete WP 500

Water proofing admixture for Concrete Application.

Description

Sidhya® Crete WP 500 is an effective waterproofing admixture designed for concrete applications for achieving hydrophobic and water repellence in concrete. Sidhya® Crete WP 500 can fulfill advance durability and quality requirements of critical projects by providing protection mechanism for cement matrix during the hydration process. The product can significantly reduce capillary water absorption and enhance the long term performance of concrete.

Applications

Sidhya® Crete WP 500 is water proofing admixture which can be used to minimize water permeability and absorption properties of concrete, plaster and cement sand mortars. The product improves the durability properties of concrete and hence can be used for the below applications:

- Concreting of foundations with high water table.
- Production of tunnel segments and shotcrete.
- Construction of basement floors and walls concrete.
- Construction of water tanks.
- Construction of drainage and sewage pipes.
- Reinforced concrete in marine environment.
- Can be used in water tight cement mortar.

Mixing

Sidhya® Crete WP 500 should be added to the fresh concrete after addition of 70 – 80% of water. It is recommended to use high shear mixers and mix for two minutes. The correct quantity of Sidhya® Crete WP 500 should be measured by means of a recommended dispenser.

Technical Specifications

Chemical Base	Surface active agent
Color	Colorless to Yellowish
Appearance	Homogenous
State	Liquid
Specific Gravity	1.02 ± 0.02 @ 20^0C
pH	Minimum 11.0
Chloride Ion Content	<0.10%
Alkali content	<1.5 g Na^2O equivalent / liter of admixture.
Shell Life	12 months from the date of manufacturing if stored as per recommendations and original sealed packing.

Advantages

Sidhya® Crete WP 500 is a waterproofing admixture which promotes durability in concrete and boosts the long-term performance of concrete and hence providing the following advantages:

- Production of water-tight concrete.
- Production of high-quality and durable ready-mix concrete.
- Production of high-quality and durable precast concrete.
- Promotes corrosion resistance of concrete.
- Reduces the water absorption and water permeability of concrete.
- Promotes reduction of capillary water absorption in concrete.
- Enhanced resistance of concrete from Carbonation.
- Suitable for usage in waterproof plaster and cement grouting systems.

Dosage

The recommended dosage of Sidhya® Crete WP 500 should be between 0.4% to 2.0% by weight of cementitious. Reduction of water/cement ratio is also recommened. Increase in dosage may lead to reduction in compressive strength should be considered while designing the concrete mix.

The optimum dosage of the Sidhya® Crete WP 500 should be determined by preliminary trials at site. The dosages above recommendation can be used if agreed by the client and consultant for special applications along with consultation of Sidhya® technical team.

Compatibility

Sidhya® Crete WP 500 is compatible with all types of cement and binders such as GGBS, Ultra Fine GGBS, Micro silica, Fly ash and Metakaolin. Sidhya® Crete WP 500 when using along with other Sidhya® products should be added separately and must not be blended prior to addition.

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Technical Compliances

Sidhya® Crete WP 500 conforms to the requirements of IS 2645 (2003), ASTM D5385 & BS EN 934 - 2

Storage

Sidhya® Crete WP 500 has a shell life of 12 months provided the temperature is kept between +1.0^{0}C to +50.0^{0}C. Please contact Sidhya® technical team if the product falls outside the temperature range.

Packaging

Sidhya® Crete WP 500 is available in 200 liters drums, 1000 litres IBC and bulk tanker. Please contact our Sales Representative for customized packing and more details

Legal Notice

The recommendations related to the application and recommendations are given in good faith based on Sidhya's current experience and knowledge of the products. The benefits stated about the product are only applicable if guidelines provided by Sidhya for storing, handling and mixing are followed under normal conditions. 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 is always advised to test the product's compatibility and suitability for the intended requirements and application. Sidhya reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. 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.

Sustainability, Health and Safety

End use of the product must read the Material Safety Data Sheet (MSDS) of the product. The MSDS provides information and advice on storage, handling and disposal of the product and instructions related to physical ecological, toxicological and other safety related data.

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