



SIDHYA ASIA
CHEMICAL PRIVATE LIMITED

SIDHYA® CRETE

SIDHYA'S DURABILITY SOLUTIONS

**WHERE CONCRETE
MEETS QUALITY**

SIDHYA® CRETE WP - YOUR WATERPROOFING PARTNER

Sidhya® Crete WP is dedicated waterproofing admixture brand for infrastructure projects to fulfill the requirements of quality and durability. Waterproofing is considered as a serious factor when the concrete is exposed to challenging weather conditions such as marine environments, extreme temperatures and exposure to chemical attacks. Our Sidhya® Crete WP enhances the durability by reducing water absorption and permeability. The products reduces risks of corrosion, damp proof and efflorescence effect significantly.

SIDHYA® CRETE WP

Can be broadly classified into three types of application methods:

Sidhya® integral waterproofing system

Sidhya® crystalline waterproofing system

Sidhya® damp proofing system

Benefits of Sidhya® Durability systems:

- ◆ The service life of the structure significantly
- ◆ Permanent protection from corrosion.
- ◆ Increases long term durability and less maintenance
- ◆ Increase sustainability as it reduces regular maintenance.
- ◆ Preserves the appearance and aesthetics of a structure.
- ◆ Maximum protection from Sulphates and Chloride attacks.

SIDHYA® INTEGRAL WATERPROOFING SYSTEM

Sidhya® Crete WP includes integral waterproofing system which can significantly reduce the maintenance cost in future. These products are preventive methods of waterproofing in which we add the waterproofing admixtures while production and supply of concrete at project sites. Depending on the durability requirements of the site and exposure conditions of the structure we recommend our dosages. Sidhya® Crete WP reduces the risk of corrosion of reinforcement significantly and henceforth increasing the life of the structure.

Products names

Sidhya® Crete WP 100

Sidhya® Crete WP 500

Applications of the Sidhya's integral waterproofing systems:

- ◆ Production of tunnel segments and shotcrete.
- ◆ Construction of basement floors and retaining walls.
- ◆ Construction of water tanks, drainage and sewage pipes.
- ◆ Reinforced concrete in marine environment.
- ◆ Can be used in watertight cement mortar.
- ◆ Minimize water permeability of concrete, plaster and cement sand mortars.
- ◆ Minimize water absorption of concrete, plaster and cement sand mortars.
- ◆ Concreting of foundations with high water table.

SIDHYA® CRETE CI - OUR ANTI-CORROSION ADMIXTURES

Sidhya® Crete WP Crystalline Waterproofing system are new generation modern waterproofing solutions which can be used for very high durability and waterproofing projects. These are products are suitable for structures which are exposed to continuous hydrostatic pressure and exposed to water or submerged. Sidhya® Crete crystalline series are added to concrete during batching of concrete and even at project sites. Active chemicals in the product diffuses to create a catalytic reaction which produces crystals of which blocks the capillary cracks and pores on the structure.

Products names

Sidhya® Crete WP 1000

Sidhya® Crete WP 3000

Applications Range for the Sidhya® Crete crystalline series:

Sidhya® Crete Crystalline series activates a crystalline reaction with the free lime in presence of moisture and hydrostatic pressure concrete moisture to seal the capillary cracks and hence improves the durability properties of concrete and can be used for the below applications:

- ◆ **Concrete of tunnel and underground concrete structures.**
- ◆ **Mass Concrete application such as water reservoirs and storage facility.**
- ◆ **High durable concrete for waste water treatment plant.**
- ◆ **Construction of water tanks.**
- ◆ **Basement and foundations of tall buildings.**
- ◆ **Marine concrete structures such as harbours and docks**
- ◆ **Precast concrete of acripods and tetrapods..**

SIDHYA® CRETE WP 800 - A MODERN SOLUTION

Damp proof and water seepage on concrete walls and flooring due to capillary movement of water is a problem which is seen in almost every residential household in India. Sidhya® Crete WP 800 is a modern solution for an old problem. The product is designed to be mixed in cement grout and mortar to stop the movement of water. Sidhya® Crete WP 800 is a rubber emulsion which is used for damp proof control and waterproof rush coat during construction. Sidhya® Crete WP 800 is a waterproofing admixture which promotes durability in concrete and boosts the long-term performance of concrete.

Advantages of the product:



Reduces the permeability of water in screed, plaster and cement grout.



Reduces the water absorption in concrete.



Protects concrete even from acid attacks and makes it chemical resistant.



Prevents interlocks & pavers from efflorescence.



Protects growth of fungal on external plaster walls and prevents dampness.

Method of Applications:

For concrete, cement and grout applications, Sidhya® Crete WP 800 should be directly added to the concrete mixer from the batching plant. For grout coat, bond coat and damp-proof coat, primary coat should be applied by brush and second coat should be applied while the primary is still tacky.

SIDHYA® CRETE CI OUR CORROSION RESISTANT ADMIXTURES

Reinforced concrete is porous in nature and hence due to tiny pores and capillaries when exposed to harsh environments can lead to corrosion risk due to exposure to chlorides. Due to saline environments, chloride ions penetrate through the concrete cover leading to formation of ferrous hydroxide. Sidhya® Crete CI comprise of both Anodic and Cathodic Inhibitors. Anodic inhibitors works on principal of forming a passive layer of oxide on the steel reinforcements where as the cathodic inhibitors slows the reaction on the surface on the steel reinforcements and leads to formation of salts which precipitates at the cathodic sites.

Products names

Sidhya® Crete CI

Sidhya® Crete CI 250

Sidhya® Crete CI 500

Sidhya® Crete CI 1000

Sidhya® Crete CI 2000

ADVANTAGE OF SIDHYA® CRETE CI

- ◆ Increase the durability of the RCC structure.
- ◆ Extends the service life of reinforced concrete structures.
- ◆ Improves resistance to chloride attacks
- ◆ Improves the fresh concrete properties of reinforced concrete.
- ◆ Reduces the porosity of concrete.

Applications of Sidhya® Crete CI

Roads & Bridges | Tunneling segments and lining | Coastal retaining walls
Deep Foundations of RCC structures | Airports & Railways | Industrial flooring



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