



SIDHYA ASIA
CHEMICAL PRIVATE LIMITED

SIDHYA® ADMIXTURE

SYSTEM FOR INFRASTRUCTURE ROADS & BRIDGES

WHERE CONCRETE MEETS QUALITY



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SIDHYA ADMIXTURES SYSTEM-INFRASTRUCTURE CONSTRUCTIONS

The world is developing its infrastructure for transportation, logistics and business growth in which concrete plays a key role as the first material of choice for construction. The demand for new and modern infrastructure is growing across the globe for better connectivity and facility. Our goal in Sidhya® Asia Chemical Private Limited is to boost this growth with our quality products as key ingredient in concrete technology. Team Sidhya® is constantly innovating and developing our products in the following field of infrastructure development:

Concrete Road Solutions

Bridges Constructions

Mass Concrete Projects

Our project services & system solutions

We offer competent logistical support to our clients. Our supply chain team always ensures on time supply to our clients and even develop delivery schedules along with our client representative. We ensure that the delivery happens as per convenience of site with a professional team. We also ensure that we offer flexibility to our client during delivery planning. For large-scale projects and corporate clients, we provide special tanks and dosing systems. Our customer sales support team ensures the volume required by your team at site per month is planned well along with considering various factors to always ensure smooth operations. We understand the sudden need for high volumes during raft foundation concrete to low volumes during rainy seasons and hence our representatives are always in contact with your team. In this way, we ensure you always have our products.

Our Products

Sidhya® Plast Series

Sidhya® Plast RC 265

Sidhya® Plast RC 360

Spraying/Rolling applications on concrete surfaces

Sidhya® Pro Cure 105

Sidhya® Pro Cure 110

Sidhya® Pro Cure 200

Integral Curing Compounds

Sidhya® Pro Cure 300

Sidhya Range of Fibres

Anti Shrinkage Fibers

Sidhya® PP Fibre 20 Microns – 12 mm

Sidhya® PP Fibre 20 Microns – 6 mm

Structural Fibers

Sidhya® Macrofibers 24 mm

Sidhya® Macrofibers 48 mm

SIDHYA'S ROAD CONCRETE SOLUTIONS

Construction of high-end infrastructures roads like expressways and ring roads are important for development for any country. Freight corridors from port to industrial hubs and industrial hubs to warehousing facilities have become a need for the global market. Construction of quality concrete roads which means high compressive strength and flexural strength requirements.

1. Superplasticizers for concrete roads.

The slump required for concrete base production is S1 slump with high compaction factor of concrete. The concrete requires smooth and plastic mix design. With this understanding our Sidhya® Plast RC admixtures are tailored to meet such requirements. With high reducing capability, we can ensure high compressive strength development as well.

2. Curing compounds for concrete roads

Concrete used for road construction also needs to be cured by means of water. This process of curing requires huge amounts of water for 28 days and requires a lot of labours and machineries to perform the activity. Curing compounds are the modern solutions which eliminates the process of water and need of labours. Our Curing Compounds eliminates the use of water by preventing the loss of moisture from concrete surface. The moisture in fresh concrete take part in hydration and forms C3SH.

3. Anti shrinkage fibres for concrete roads.

Concrete roads casted are often exposed high rate due to evaporation due to which it can develop Shrinkage cracks on the surface. During the heavy traffic movement, these same cracks widens and turns into potholes. To improve the durability and crack resistance of the roads infrastructure we recommend to add Sidhya® Fibres. At Sidhya® Asia, we promote such innovative technology and hence we have variety of solution for the same Sidhya® PP fibre 20 Microns comes in different lengths and prevents development of shrinkage cracks.

Our Sidhya® Macrofibers are innovation for construction of heavy loads roads. These fibres increases the flexural strength of concrete and increases the impact resistance of concrete. They are direct replacement of steel fibres in concrete and henceforth do not promote corrosion of reinforcements in concrete.

Our products

Sidhya® Plast Series

Sidhya® Plast RC 220

Sidhya® Plast RC 320

Sidhya® Plast RC 465

Sidhya® Flow Series

Sidhya® Flow PC 400

Sidhya® Flow PC 425

Our Sidhya® Crete WP Series

Sidhya® Crete WP 100

Sidhya® Crete WP 500

– Integral Waterproof System

Sidhya® Crete WP 1000

Sidhya® Crete WP 3000

– Sidhya® Crystalline System

Our Sidhya® Crete CI Series

Sidhya® Crete CI 250

Sidhya® Crete CI 500

Sidhya® Crete CI 1000

Sidhya® Crete CI 2000

Sidhya® Microsil

Sidhya® Microsil 920

Sidhya® Microsil 950

Sidhya® Microsil 500S

SIDHYA'S BRIDGES INFRASTRUCTURE SOLUTIONS

Bridges are constructed to cross land masses or over water bodies to reduce the length of commute and hence designed for a lifespan of 50 to 100 years. The concrete used in such construction needs to be highly durable to adapt to a variety of traffic loads, changing weather conditions and sulphate/chloride attacks.

1. Sidhya® Plast & Sidhya® Flow – Your admixture partner

Our Sidhya® Plast series consists of tailored solutions for different workability requirements during bridge construction. Sidhya® Plast admixtures can provide a high-water reduction in concrete along with long workability requirements.

Our Sidhya® Flow series of admixtures are especially designed admixtures for free flow concrete. They are modified polymers along with a viscosity modifying agent which can be used for high quality self-compacting concrete. Sidhya® Flow admixtures are highly recommended for congested reinforcement concrete.

2. Sidhya® Crete – Your durability partner

Our Sidhya® Crete consists of durability products which will enhance the life of the structure significantly. They are divided into two segments – Sidhya® Crete WP and Sidhya® Crete CI.

Sidhya® Crete WP are our waterproofing solutions which can significantly reduce the water absorption and water permeability of the concrete. We offer various types of waterproofing solutions which can be classified into three types of application methods:

- 1 Sidhya® Integral waterproofing system
- 2 Sidhya® Crystalline waterproofing system

Sidhya® Crete CI are our corrosion prevention technology which can be mixed with concrete during production and enhances durability.

3. Sidhya® Microsil – Premium microsilica for high strength concrete

Micro silica is a highly sustainable material which can be used as an alternate cement as a pozzolanic material. It can be used in producing high quality and durable concrete for readymix and precast industries. Sidhya® Microsil is a brand which comprises of premium quality micro silica which helps to increase the compressive strength and cohesion in fresh concrete. Sidhya® Microsil reduces water permeability and increases the life of the structure.



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Our Sidhya® Retarders

Sidhya® Rheoplast 150

Sidhya® Rheoplast 250

Our Sidhya® Rheo Crete Series

Sidhya® Rheo Crete CS 300

Sidhya® Rheo Crete 990 AW

Sidhya® Rheo Crete 500N

Sidhya® Rheo Crete 1000 AW

Sidhya® Rheo Crete 2000 AW

Our Sidhya® Quick Set Series

Sidhya® Quick Set 5000 AF

Sidhya® Quick Set 3000 AF



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SIDHYA'S MASS CONCRETE SOLUTIONS

Sidhya® Asia being in infrastructure market for a long time, we understand the custom needs of our clients during heavy demand in mass concrete projects such as hydro powder dams, airport construction, mass raft foundation projects and concrete retaining walls. Aside from the standard solutions of superplasticizers, waterproofing and corrosion inhibitors – mass concrete projects are about consistency and quality. To counter the weather conditions, workability requirements and rheology consistency, we have developed several value added products.



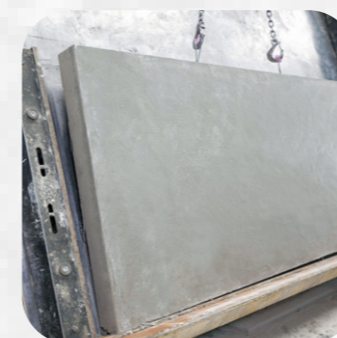
Sidhya® Rheo Plast – Extended workability advantage

Sidhya® Rheo Plast helps to extended the workability from 3 hours to 16 hours which help maintain the workability of concrete during long haul project sites. Projects like hydro power dams and mass raft concrete can utilize such products. Sidhya® Rheo Plast also can be used by normal readymix plants to extend there market reach by extending workability. Sidhya® Rheo Plast ensure easy placement and more productivity of readymix plants.



Sidhya® Rheo Crete – Viscosity modifying agent

Sidhya® Rheo Crete are series of products which is used for rheology modification. Due to variations in sand sometimes the concrete arriving at sites are either low workable or high bleeding and segregated. Sidhya® Rheo Crete is the perfect which can be added to the transit mixers to enhance the workability at site and avoid such wastage. Sidhya® Rheo Crete also aids in pumping at site.



Sidhya® Quick Set – Accerelators for faster operations

Sidhya® Quick Set are series of accerelators which are added to the concrete in cold weather concreting. During cold weather concreting in projects can lead to delay in setting times and hence poor development of strength and hydration. Sidhya® Quick Set can resolve this problem by accelerating the hydration process and hence ensures proper demolding.



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