



# SIDDHI VINAYAK CONSTRUCTION CHEMICAL PVT. LTD.

## CONCRETE GUARD<sup>TM</sup>

SUPER DISPERSANT ADMIXTURE

सिद्धिविनायक का वादा..  
मजबूती सबसे ज्यादा...



## About

Concrete Guard super dispersant admixture is a new generation superplasticizer designed to produce wide range of concrete mixes from conventional to self-consolidating concrete.

## Description

Is a new generation superplasticizer designed to produce wide range of concrete mixes from conventional to self-consolidating concrete. It incorporates water dispersible polymers with a more complex molecular structure than conventional superplasticizers.

Concrete is the most essential element in the construction of any building structure. It is a heterogeneous material made with cement, sand & aggregates mixed with water and moulded to required shape which attain the required strength while hardening. The water in the concrete plays a significant role in workability, strength, and cohesiveness of the mix which in turn relates to quality and durability of the concrete. Lower the water-cement ratio, higher is the strength of the concrete and at the same time it reduces the workability. Higher the water content in the concrete the workability will improve where in the strength of the concrete will reduce. Chemical admixtures play a vital role in reducing the water-cement ratio without compromising the strength. This also improves workability and cohesiveness of the mix. The proper use of admixtures to the concrete will provide enormous benefits in improving the workability, better compaction and resulting in improved concrete quality and strength.

Concrete Guard is a super plasticizer based on Polymer which are used for concretes of any grade. These admixtures can be used for producing concrete with high slump retention, flowability and compatible OPC, PPC, Fly ash, Micro silica and GGBS particularly where high early strength is required and reduction in cycle time is of utmost importance. The most important requirement in Ready Mix Concrete is long workability retention without compromising on water-cement ratio and the properties of the hardened concrete. Also, industry demands a robust single admixture like Concrete Guard that is suitable for both Normal Slump Concrete (NSC) and Free Flow Concrete (FFC), with long workability retention.

Pavement Quality Concrete (PQC), used for road-laying requires compaction of a specific concrete design at a consistency level that allows the form to move continuously. It is essential that the concrete is able to support itself in the shape moulded and hence concrete for pavement quality applications tends to be of very low consistency (slump) level.



The grade of PQC will be decided by various traffic studies, need for trouble-free service life and the modulus of sub-grade reaction, etc. The flexural strength of concrete is first fixed and then the thickness of pavements. Since Concrete Guard is a low-viscosity, single component polymer-based admixture suitable for both NSC & FFC, this makes it an ideal admixture for PQC.

## Advantages

- Increase early and ultimate compressive strength with normal setting
- Produces concrete with high level of workability without segregation
- Excellent concrete durability and rheology
- Lower permeability
- Excellent handling properties
- Lowers drying shrinkage and creep
- Increased productivity
- Self-curing resulting in elimination of water curing.

## Applications

- Ready Mix Concrete
- Bridges
- Concrete Pavement
- Residential/Commercial/Industrial Buildings
- Tunnel
- Dams
- PCC, RCC, road

## Dosage and Usage

The normal recommended dosage is between 0.5% to 1.2% by weight of cementitious material. The optimum dosage of Concrete Guard Concrete Guard super dispersant admixture to meet specific requirement should always be determined by trials using the materials and conditions that will be experienced in use. Stir well before use.

### PACKAGING

Packing Size :-  
2.5 Kgs, 50 Kgs, 230 Kgs

Packing Material :-  
HDPE Cane, HDPE Jar  
HDPE Barrel



2.5 Kgs



50 Kgs



230 Kgs



Manufactured & Marketed by :

# **SIDDHI VINAYAK**

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