



SIDDHI VINAYAK CONSTRUCTION CHEMICAL PVT. LTD.

CRETO-PLASTTM
Superplasticizer Concrete Admixture



सिद्धिविनायक का वादा..
मजबूती सबसे ज्यादा



About

Creto Plast Superplasticizer Is The Result Of Sophisticated Chemical Engineering. Creto Plast Superplasticizer Operates On A Molecular Level, Adsorbing Onto Cement Particles And Deploying A Steric Repulsion Effect That Wards Off Clumping. Creto Plast Superplasticizer Not Only Ensures A Smooth And Workable Mixture But Also Significantly Reduces The Water Demand Of Concrete. And Creto Plast Superplasticizer Providing Excellent Fluidity Retention Performance Ideal For High-Rise Structures

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.

Creto plast 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 Creto Plast 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 Creto Plast Is A Low-Viscosity, Single Component Polymer-Based Admixture Suitable For Both Nsc & Ffc, This Makes It An Ideal Admixture For Pqc.

Dosage And Usage

The normal recommended dosage is between 0.5% to 1.2% by weight of cementitious material. The optimum dosage of Creto Plast 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.

Advantages:

- Creto Plast Produces High Quality Durable Concrete.
- Increase early and ultimate compressive strength with normal setting.
- Creto Plast Powerful Plasticizing Action With An Improved Initial Work Ability, Easier Placing And Faster Strength Development.
- Produces concrete with high levels of workability without segregation.
- Creto Plast Reduces Water Cement Ratio To The Maximum Which Allows Production Of High Strength Concrete.
- Creto Plast Capability Of Delivering High Performance Concrete At Any Time To The Job Site In Place.
- It Can Be Either Used Alone Or After Compounded With Other Additives To Make Special Concrete Such As Pumping Concrete, Ready Mix Concrete Etc.

Applications

- Ready Mix Concrete
- Bridges
- Concrete Pavement
- Residential/Commercial/Industrial Buildings
- Tunnel
- Pcc, Rcc, Road
- Dams

Enhanced Slump Retention

The True Magic Of Creto Plast Super Plasticizer Concrete Admixture Might Lie In Its Slump Retention Prowess. Concrete Treated With Creto Plast Superplasticizer Concrete Admixture Can Maintain Its Malleability Longer Than Ever Before, Providing Construction Teams With A Generous Window To Work With The Material Without The Fear Of It Becoming Too Rigid Or Losing Cohesiveness.

Enabling Advanced Concrete Forms

With Creto Plast Super Plasticizer , Self-Consolidating Concrete (Scc) And High-Performance Concrete (Hpc) Are No Longer A Futuristic Fantasy. These Advanced Forms Of Concrete, Boasting Superior Properties, Are Now More Accessible, Setting The Stage For Innovative Construction That Meets The Demands Of Modern Infrastructure

Instructions For Use

Creto Plast Superplasticizer Concrete Admixture Must Preferably Be Added In The Mixing Water And In Case Of Ready-Mix Concrete Where The Product Can Be Added On Fresh Concrete And In A Mixing Truck, It Is Necessary To Mix At A High Speed For About 6–8 Minutes.





Manufactured & Marketed by :

SIDDHI VINAYAK

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