



Multifunctional Concentrated PCE based High Range Water Reducing and Quick Strength Enabling Hyperplasticizer, Specially Formulated for the Precast Concrete Industry

General

SS - PlastiCon Hyper PC40 is a Specially designed Multifunctional Concentrated PCE based Admixture for Concrete Mixes up to 60 - 70 MPa in Strength. The material is based on selected PCE polymers suitably modified and is free from chlorides. It aids concretes in attaining good early age mechanical properties and durability. The concretes with **SS - PlastiCon Hyper PC40** are homogenous and free from bleeding and segregation. The formulation of **SS - PlastiCon Hyper PC40**, makes it suitable for use in concretes containing manufactured sand. The hyperplasticizer provides high range of water reduction and enables quick strength gain for the precast elements, to help them demolded early.

SS - PlastiCon Hyper PC40 is suitable for use in precast industry, mass concrete, SCC, marine or massive structures where the quick strength gain is required [but workability retention is short]. Properly designed concrete produces a very homogenous concrete, which is easily workable without bleeding and segregation. Usage of **SS - PlastiCon Hyper PC40** reduces the chances of pump blocking and reduces the abrasion in the pipelines, thereby extending the life of concrete pumps. Please contact us for concrete technology support and design.

Product Features

- High Performance Concentrated Multi-functional admixture to provide high flow & early strengths
- Can be used with blended cements and mixes with high percentage of OPC replacement for high durability
- Robust Formulation, Suitable for most mixes
- Enables excellent early and final strengths in Concrete
- Quick Strength Gain Hyperplasticizer
- Chloride free
- High Water Reduction
- Provides Improvement in dispersion of mixes having manufactured sand and helps rheological properties
- Reduced thermal peaks



Concrete & Mortar Additives



Areas of Application

- Retarding superplasticizer for quick strength gain
- Prestressed concrete, Precast Concrete
- Hollowcore Slab Production
- Production of precast blocks, poles, manholes and other similar elements
- Pumpable and Self Compacting Concrete
- Suitable for all standard cements
- Congested/complex reinforced sections
- Mixes with high Fines Content
- Mixes requiring higher water reduction
- Fair Faced Concrete

Areas of Application

Specification Keywords	Multifunctional Concentrated PCE Admixture, water-reducing hyperplasticizer, water reduction, early compressive and flexural strength, OPC, Blended Cements
Delivered As	Brown Coloured Liquid
Storage Instructions	In Original Packing. In a cool dry place.
Shelf Life	12 Months from date of Manufacture.
Post Use	Use Complete Packs, Dispose packaging according to local regulations.
Packing Size	20 kg, 30 kg, 220 kg



Hazards and Safety



Preliminary Trials Mandatory

Technical Data

Sp. Gravity	1.15 +/- 0.05
Dosage	0.8 to 2.0% by weight of binder
Chloride Content	< 0.1%

Instructions for Use

Add **SS - PlastiCon Hyper PC40** to the concrete during mixing, most preferably along with the additional water. Do not add **SS - PlastiCon Hyper PC40** to the dry aggregate/cement mix, as it reduces efficiency of the admixture. The admixture is most effective when dosed after about 70% of the mixing water has been added to concrete. The mixing time after addition of the admixture should be long enough to allow the admixture to plasticize the mix completely. The concrete to be produced can be mixed in a standard drum mixer or a modern batching plant / pan mixer setup.

In-case the admixture needs to be dosed on-site into transit mixers, please follow corresponding engineering and safety rules. Post addition, rotate the transit mixer drum at full speed for atleast 3-5 minutes, to allow the admixture to disperse homogenously. As with all chemical products, take care during use and storage to avoid contact with eyes, mouth, skin or food. In case of contact, rinse eyes and skin immediately with plenty of water. If ingested, seek immediate medical attention. Keep away from children and animals. Reseal containers after use. Do not reuse containers for storing water or other consumable foods. Use Complete Packs.

Safety and Precautions

To determine individual technical suitability, test the admixture under application conditions. Please allow us to assist you for your concrete technology testing/needs. Follow relevant standards for production, placing and curing of concrete. As with any concrete, efficient curing is essential to develop final properties mechanical and durability properties.

Depending upon the concrete mixover dosage of the admixture may result in apparent incompatibility such as bleeding/segregation of concrete, quick loss of slump, excessive air entrainment, extended initial and final setting times etc. Slight overdosing would not adversely affect the strength of concrete provided the mixing of concrete is proper, and if it is properly handled and placed and adequately compacted and cured.