



# PC 650

High Range Superplasticizing Admixtures  
Based On Poly-Carboxylate Ether

## Description

**PC 650** is a new generation superplasticizer based on polycarboxylate technology. It is designed to provide the highest performance of water reduction for high strength concrete, while providing excellent fluidity during placement and extreme slump retention without affecting initial setting time. It is especially designed for concretes used at high temperatures and shows better water reducing effects and slump retention than existing water reducers.

## Advantages

- Produces concrete with high levels of workability without segregation
- Ultimate strength and durability is increased through reduced permeability.
- Reduces bleeding and therefore reduce the precipitation of concretes.
- Provides significantly higher strengths and normal set time
- Provides improved finish ability and surface finishes
- Shows proper setting, even though it has good slump retention Increased productivity, resulting in reduced labor costs.

## Uses

**PC 650** was designed to produce super high strength concrete, flowable and self compacting concrete in a variety of applications.

- Self Compacting Concrete structures in the areas of high steel content requiring high fluidity.
- Bridges requiring high strength and durability
- Convention concrete production
- High performance concrete
- Concrete requiring long workability retention
- Pumped concrete

## Properties

Appearance	: Light yellow coloured liquid
Specific gravity	: 1.11 ± 0.01 @ 25 °C
pH	: 6.0 + 1.0
Viscosity	: 300 + 100 cps

## Standards

**PC 650** complies with ASTM C 494 Type G



### Dosage

Dosage rates vary depending upon the amount of plasticity and/or water reduction desired. Recommended dosage range from 0.4 To 1.5 litres per 100 kg of total cementitious material. Other dosages may be recommended in special cases according to the specific site conditions. It is highly recommended that trial mixes be prepared to determine the optimum dosage for your specific performance requirements.

### Mixing

**PC 650** is a ready to use liquid admixture to be added to the concrete as a separate component. PC 650 is poured into the concrete mix right after the addition of at least 80% of mixing water, when all materials are wetted. Avoid adding the admixture to the dry aggregates.

### Compatibility

**PC 650** is not compatible with naphthalene based admixtures.

### Storage

Up to 1 year in unopened original packing, protected from extremes of heat and cold and stored under shade.

### Precautions

**PC 650** is not a fire or health hazard. Spillages should be washed down immediately with cold water. For further information refer to the Material Safety Data Sheet.



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