



PC 180

Mid Range Superplasticizer based on Poly-carboxylate ether

Description

PC 180 is a mid range concrete superplasticizer based on modified polycarboxylate ether. It is designed to provide highly fluid concrete for easier and faster placement, together with higher early strength achieved with substantially lower water cement ratios.

PC 180 has been designed for the production of a wide range of concrete mixes from very low water-cement ratios to precast and self-consolidating concrete. It is formulated to impart improved workability to the concrete and to achieve high early and ultimate compressive strength.

Advantages

- Increased early strength development
- Excellent concrete durability and rheology
- Improves resistance to carbonation
- Excellent handling properties
- Produces concrete with high levels of workability without segregation
- Lowers drying shrinkage and creep
- Increased productivity, resulting in reduced labor costs

Uses

PC 180 is a mid range superplasticizer, designed to produce super high strength high flow concrete in a variety of applications such as:

- Pre-cast industry
- High flow concrete
- High early strength floor screeds
- Pumped concrete
- High performance concrete with very low water cement ratios

Properties

Appearance	: Light yellow
Specific gravity	: $1.06 \pm 0.02 @ 25^\circ\text{C}$
pH	: $6.0 \pm 1.0 @ 25^\circ\text{C}$

Standards

PC 180 complies with ASTM C 494 Type F

Dosage

Dosage rates vary depending upon the amount of plasticity and/or water reduction desired. Recommended dosage range from 0.5 To 2.5 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 180 is a ready to use liquid admixture to be added to the concrete as a separate component. **PC 180** 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 180 is compatible with all types of cements and cement replacements, such as microsilica, fly ash and GGBS.

However, **PC 180** is not compatible and should not be used in combination with naphthalene and melamine sulphonate based Superplasticisers.

Storage

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

Precautions

PC 180 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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