



PC 150

Low Range Superplasticizer
based on Poly-carboxylate ether.

Description

PC 150 is a new generation polycarboxylate based superplasticizer designed for the production of wide range of concrete mixes from conventional to self consolidating concrete.

PC 150 shows improved performance in fluidity retention and the development of compressive strength compared to the PNS (poly naphthalene sulfonate) based superplasticizer.

PC 150 combines the properties of water reduction and workability retention. It allows the production of high performance concrete with good workability.

PC 150 can be used in moderate dosage to replace high dosage of naphthalene based superplasticizer in high performance concrete mixes.

Advantages

- Increase early and ultimate compressive strength with normal setting.
- Produces concrete with high levels of workability without segregation
- Excellent concrete durability and rheology
- Lower permeability
- Excellent handling properties
- Lowers drying shrinkage and creep
- Increased productivity, resulting in reduced labor costs

Uses

PC 150 is a low range superplasticizer, designed to produce high strength high flow concrete in a variety of applications such as:

- Concrete requiring long workability retention.
- Concrete containing micro silica, GGBS and PFA.
- For hot weather concrete
- Pumped concrete
- Pre-cast industry

Properties

Appearance	: Light yellow coloured liquid
Specific gravity	: 1.05 ± 0.02 @ 25 °C
pH	: 6.0 ± 1.0 @ 25 °C

Standards

PC 150 complies with ASTM C 494 Type F & G.



Dosage

Dosage rates vary depending upon the amount of plasticity and/or water reduction desired. Recommended dosage range from 0.80 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.

Effects of overdosing

Over dosage may cause delay in the setting time and bleeding problems.

Mixing

PC 150 is a ready to use liquid admixture to be added to the concrete as a separate component. **PC 150** 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 150 is compatible with all types of cements and cement replacements, such as microsilica, fly ash and GGBS.

However, **PC 150** is not compatible and should not be used in combination with any PACTOFLO range of naphthalene based superplasticisers.

Storage

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

Precautions

PC 150 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.



P.O. Box no 282 676 Dubai-UAE
 Tel: +971 4 885 0 886
 Fax: +971 4 885 0 887
 Visit us: www.pactechnologies.ae

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