



PC 200

Mid Range Superplasticizer based on Poly-carboxylate ether.

Description

PC 200 is an innovative new generation polycarboxylate ether based slump retaining aid with super retention technology. It is designed where more than the normal slump retention and durability are required for ready mix and precast concrete industries.

PC 200 is different from conventional superplasticizers, such as those based on melamine and naphthalene formaldehyde condensates, in that it is based on unique polycarboxylate ether polymer with long lateral chains. At the time of mixing process an electrostatic dispersion occurs but the presence of the lateral chains. Linked to the polymer backbone, generate a steric hindrance which stabilizes the cement particles capacity to separate and disperse. This mechanism provides flowable concrete with greatly reduced water demand and aids in super slump retention.

PC 200 can be used in moderate dosage to replace high dosage of naphthalene based superplasticizer in high performance concrete mixes.

Advantages

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

Uses

PC 200 is a Mid range superplasticizer, designed to produce high strength high flow concrete in a variety of applications such as:

- High performance concrete with very low water cement ratios.
- High flow concrete
- For hot weather concrete
- Pumped concrete
- Pre-cast industry

Properties

Appearance	: Light yellow coloured liquid
Specific gravity	: 1.06 ± 0.02 @ 25 °C
pH	: 6.0 ± 1.0 @ 25 °C

Standards

PC 200 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 0.75 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.

Effects of overdosing

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

Mixing

PC 200 is a ready to use liquid admixture to be added to the concrete as a separate component. **PC 200** 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 200 is compatible with all types of cements and cement replacements, such as microsilica, fly ash and GGBS.

However, **PC 200** 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 200 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

Important Note: Whilst any information contained herein is true, accurate and represents our best knowledge and experience, no warranty is given or implied with any recommendations made by us, as the conditions of any labor involved in the application is beyond our control. PAC Technologies shall not be liable for any injury, loss or damage, direct or consequential, arising out of the use of this product. It is the responsibility of the user to ensure that the product meets his particular requirements and to use it in a suitable way. Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local PAC Technologies representative.