



AEROTM
CONCHEM LLP

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AEROPLAST PC (MID)

Mid-Range Superplasticizer Based on Polycarboxylate ether

Description

AEROPLAST PC (MID) is a new generation Polycarboxylate based superplasticizer designed for the production of wide range of concrete mixes from conventional to self-consolidating concrete. AEROPLAST PC (MID) shows improved performance in fluidity retention and the development of compressive strength compared to the PNS (poly naphthalene sulfonate) based superplasticizer. AEROPLAST PC (MID) combines the properties of water reduction and workability retention. It allows the production of high performance concrete with good workability. AEROPLAST PC (MID) 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

AEROPLAST PC (MID) is a mid-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.

Standards

AEROPLAST PC (MID) 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 0.80 to 2.5 liters 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.

Typical Properties & Specifications:

Sr.No	Properties	Specification
1	Appearance	Water Colour Liquid
2	pH	>6.0

Effects of overdosing

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

Mixing

AEROPLAST PC (MID) is a ready to use liquid admixture to be added to the concrete as a separate component. AEROPLAST PC (MID) 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

AEROPLAST PC (MID) is compatible with all types of cements and cement replacements, such as MicroSilica, Fly Ash and GGBS. However, AEROPLAST PC (MID) is not compatible and Should not be used in combination with any PACTOFLO range of naphthalene based superplasticizers.

Storage

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

Precautions

AEROPLAST PC (MID) 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.