

Dr.Hiper 201

Mid-Range Superplasticizer Based on Poly-carboxylate ether with Set Retardation

Description

Dr.Hiper 201 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 concrete industries.

Dr.Hiper 201 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.

Uses

Dr.Hiper 201 can be used in moderate dosage to replace high dosage of naphthalene based superplasticizer in high performance concrete mixes. 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

Advantages

- High workability concrete without segregation
- Excellent concrete durability and rheology
- Lower permeability
- Excellent handling properties
- Lowers drying shrinkage and creep
- Increased productivity, reduced labor costs

Precautions

Dr.Hiper 201 is not a fire or health hazard. Spillages should be washed down immediately with cold water



Standards

Dr.Hiper 201 complies with ASTM C 494 Type F & G
Water soluble chloride: nil according to BS EN 934-2

Properties

Appearance: Light yellow colored liquid
Specific gravity: 1.05 + 0.02 @ 25 °C
pH: 4.7 ± .03

Dosage

Dosage rates vary depending upon the amount of plasticity and/or water reduction desired.
Recommended dosage range from 0.7 To 1.5 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.

Mixing

Dr.Hiper 201 is a ready to use liquid admixture to be added to the concrete as a separate component **Dr.Hiper 201** 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. Laboratory trials should be made with normal concrete mix design, adopting the same materials and conditions to be implemented.

Compatibility

Dr.Hiper 201 is compatible with standard **Dr.Hiper** concrete admixtures and it should not be mixed together with other admixtures prior to addition .it is preferred to be added with the mixing water .

Dr.Hiper 201 is not compatible with PNS based Superplasticizer.

Storage

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