



Dr.Hiper 401

High Range Super-Plasticizing Admixture Based on Polycarboxylate Ether with Set-Retardation

Description

Dr.Hiper 401 is a third generation superplasticizer based on polycarboxylate ether. It is designed to provide the highest performance of water reduction, while providing excellent flow ability during placement and extreme slump retention without affecting initial setting time.

This special formulation enables **Dr.Hiper 401** to retain concrete workability for a longer time at low w/c at during hot weather concreting. It can maintain good mixture appearance without segregation or bleeding

USES

Dr.Hiper 401 is used to optimize the dosage of cement and to maintain the workability. It is recommended for use with all types of cements, in the following areas:

- Ready-mix concrete
- Prestressed concrete
- incubated concrete
- Paving and industrial floors
- High mechanical strength concrete

Advantages

Dr.Hiper 401 was designed to produce super high strength concrete and flowable concrete in a variety of applications.

- Ready-mix Concrete
- Reduce water/cement ratio
- Convention concrete production
- For high levels of concrete pumping
- High performance concrete
- Concrete requiring long workability retention

Precautions

Dr.Hiper 401 is not a fire or health hazard. Spillages should be washed down immediately with cold water.

Properties

Appearance: Light yellow colored liquid
Specific gravity: 1.091 + 0.02 @ 25 °C
pH: 4.8 ± .03

Standards

Dr.Hiper 401 complies with ASTM C 494 Type F & G
Water soluble chloride: nil according to BS EN 934-2

Dosage

Dosage rates vary depending upon the amount of plasticity and/or water reduction desired.

Recommended dosage range from 0.7 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.

Mixing

Dr.Hiper 401 is a ready to use liquid admixture to be added to the concrete as a separate component. **Dr.Hiper 401** 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 401 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 401 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.

