



MASTER CHEMICALS TECHNOLOGY

MC- SUPER 43I

Super Plasticizer and Setting Retarder for Concrete

Description:

MC-Super 43I is a high range, water-reducing admixture designed to produce concrete with the workability needed to facilitate concrete placement. It is based on the modified lignosulphonate .

Standards:

MC- Super 43I meets the requirements of ASTM C -494 Type G and BS 5075 .

Advantages:

MC- Super 43I is a high range water-reducing admixture, aids in the production of concrete with the following properties:-

- ◆ Increased compressive and flexural strength
- ◆ Improved workability at equal water content compared to non treated, reference concrete.
- ◆ Reduced water content required for a given workability.
- ◆ Retarded setting characteristics.
- ◆ Rapid gain of strength for earlier stripping.
- ◆ Earlier structural use of concrete.

Uses:

MC-Super 43I admixture is recommended for use in concrete where initial retardation of setting Characteristics are required or desired. As a result of the advantages listed above, this admixture will improve performance in Prestressed, Precast and flowing concrete applications.

MC Super 43I admixture can be used with air-entraining cements and air-entraining admixtures approved by ASTM, and B.S. specifications when air-entrained concrete is specified or desired .When used in conjunction with another admixture, each admixture must be dispensed separately into the mix.

Technical Data:

Appearance	: Clear Brown liquid
Specific gravity at 25°C	: 1.14 g/cm ³
Chloride content	: Nil
Air Entrainment	: < 1%
PH	: 7±1

Rate of Use:

MC-Super 43I can be added directly to the mixing water prior to its addition to the mixer or added severalty to the freshly mixed concrete .It is added in the range of 500± 250ml/100 kg of cement the optimum dosage is determined by trials using the same materials in use.

Effect Of Over Dosage:

In case of over dosage of **MC-super 43I**, the retarding effect is increased without affecting in the ultimate strength which will be delayed.

Compatibility :

MC- Super 43I is compatible with all types of Portland cement

MC-Super 43I is compatible with other MC-Admix products which must be added separately

Shelf life :

18 months under suitable storage conditions in closed drums or tanks.

Packaging:

210 Lit. drums and large capacity tanks.

Cleaning:

Tools & equipments can be cleaned using water.

Safety:

MC- Super 43I is nontoxic and nonflammable.

Skin contaminations should be cleaned with water.

*For more details contact **Master Chemicals Technology** technical department*

Or visit our website www.mc.com.eg

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