

PRODUCT FAMILY

Concrete
Admixtures

MCT

MC-Super 43 I

Superplasticizer and Setting Retarder for Concrete

MC-Super 43 I is a high-range water-reducing admixture designed to improve workability and provide initial set retardation.

Addition rate	Specific gravity @ 25°C	Shelf life	Chloride content
800 ± 200 ml / 100 kg cement	1.14 g/cm ³	12 months	Nil

Description

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

Where to use

- Recommended where initial retardation of setting is required or desired.
- Improves performance in prestressed, precast and flowing-concrete applications.
- May be used with air-entraining cements and air-entraining admixtures where air-entrained concrete is specified or desired.
- When used with another admixture, each admixture must be dispensed separately into the mix.

MCT TECHNICAL DATA

MC-Super 43 I

Superplasticizer and Setting Retarder for Concrete

Standards / source references

ASTM C-494 Type G · BS 5075

Advantages

- Increased compressive and flexural strength.
- Improved workability at equal water content compared with 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.

MCT TECHNICAL DATA

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Technical data

Appearance	Clear brown liquid
Specific gravity @ 25°C	1.14 g/cm ³
Chloride content	Nil
Air entrainment	< 1%
pH	7 ± 1
Shelf life	12 months
Packaging	210 L drums and large-capacity tanks.
Addition rate	800 ± 200 ml / 100 kg cement

Dosage / method

MC-Super 43 I may be added directly to the mixing water before it enters the mixer, or separately to freshly mixed concrete. Use at 800 ± 200 ml per 100 kg of cement. Determine the optimum dosage by trials using the same materials intended for use.

Cleaning

Clean tools and equipment with water.

MCT TECHNICAL DATA

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Compatibility

Compatible with all types of Portland cement. Compatible with other MC-Admix products; each admixture must be added separately.

Storage / shelf life

12 months under suitable storage conditions.

Safety

Non-toxic and nonflammable according to the approved source. Wash skin contamination with water.

Packaging

210 L drums and large-capacity tanks.

Standards

ASTM C-494 Type G · BS 5075

