

FIBCON M-200

Melamine based high range water reducing super plasticizer

DESCRIPTION

FIBCON M-200 is a high range water reducing admixture based on Sulphonated Melamine Formaldehyde condensate product. It may be added to the concrete at the job site or at the ready mix concrete plant. No chloride are used in its formulation, consequently, it is recommended for prestressed concrete.

AREAS OF APPLICATION

- High performance concrete
- Highly slump, flowable concrete
- General ready mix concrete
- Heavily reinforced concrete
- Low water/Cement ratio concrete
- Flatwork and mass concrete
- Pumping concrete.

FEATURES & BENEFITS

- Produces low water cement ratio
- Aids in concrete placement and reduces labour cost.
- Substantial improvement in workability without increased water or the risk of segregation.
- Remarkable increase in both early and ultimate strengths.
- Long term slump retention.
- No excessive air entrainment.
- Improved durability, density and impermeability with better surface finish.
- Early deshuttering.
- Produces dense concrete and hence improves waterproofing characteristics.

DOSAGE

0.2% - 2% by weight of cement. However, higher dosage upto 3% can be used for neat cement grouting. Appropriate dosage is dependent on the type of effect sought, aggregate quality, quality & quantity of cement, sand grading, w/c ratio, ambient temperature & humidity etc. So, it is better to carry out trial mixes before determining the dose.

APPLICATION METHODOLOGY

Add FIBCON M-200 to the dosing water. It should not come into contact with dry cement.
Dosing - Charge all concrete material in the proper order into the mixer with about 70% of the mixing water and mix for three minutes. Add rest quantity of water with admixture to obtain the required slump and mix for three additional minutes. Use FIBCON M-200 at the rate of 0.2% to 2% by weight of cement.

SPECIFICATIONS & COMPLIANCES

Fully complies with the requirements of IS 9103 & ASTM C - 494 Type F & G admixtures.

TECHNICAL SPECIFICATIONS

The following results were developed under laboratory conditions.

Physical Form : Brownish Yellow Liquid. Chloride
Content(As per IS 456) : NIL



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Workability : FIBCON M-200 can be used to produce collapsed slump concrete without reducing water content.

COMPRESSIVE STRENGTH (% OF CONTROL)

Curing Period	Specifications	Control	FIBCON M-200
1 day	Min 140	100	164.1
	Min 125	100	160.2
	Min 115	100	149.8
	Min 110	100	151.2
6Months	Min 100	100	150.6

FLEXURAL STRENGTH (% OF CONTROL)

Curing Period	Specifications	Control	FIBCON M-200
3 days	Min 110	100	146.2
7 days	Min 100	100	130.1
28 days	Min 100	100	118.6

PRECAUTIONS

- Test batches/mix designs/samples slab may be required due to variations in local cement and aggregates.
- FIBCON M-200 is used in many different mix designs. Technical Service Department of FCC Pvt, LTD should be consulted whenever the question on usage or compatibility is raised.

COMPATIBILITY

It is compatible with all types of Portland Cement including PPC and SRC (Sulphate Resistance Cement) but not compatible with high alumina cement.

PACKAGING

FIBCON M-200 is packed in 5 Litre, 20 Litre and 200 Litre drums.

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