

CONFLO - MLS

Modified Ligno Sulphonate Based Water Reducer
Integral Waterproofing Admixture

DESCRIPTION

CONFLO - MLS is a high molecular weight polymer, chloride free, high range water reducing admixture designed as an aid to high quality concrete production, it conforms to IS 9103:1999, BS 5057 part1 (1982) and ASTM C494 - 98 Type A & F.

APPLICATIONS

- Enables a reduced Water : Cement ratio to facilitate the production of high strength concrete.
- Improves work ability at given water : cement ratio, aiding flow and compaction around re-inforcement and the production of clean faced concrete.
- Reduces viscosity thus improving pumpability, allows slump. Concrete can be turned into flowing concrete that requires little or no vibration for compaction.
- Enables optimum cement content for given strength requirements.
- Reduces segregation and laitance particularly in harsh gap-graded mixture.
- High range, low dosage plasticizer working at a dosage range between 0.4% to 1% by weight of cement depending on the site mix design requirements.

SITE WORK

- CONFLO - MLS should be added to the gauging water at a rate equivalent to 0.2 liters per 50 kg cement. In certain harsh mixes the addition may be increased if compaction and flow around re-inforcement need to be maximum. This increase may be to an equivalent of 0.30 liters per 50 kg cement, but actual dosage may be fixed by conducting field trials.
- Standard mix design methods may be used when CONFLO - MLS is incorporated into concrete and site trials indicate the optimum content for a given strength requirement under specific conditions. It will be found that normally this cement content will be approximately 10% less than an equivalent mix without CONFLO - MLS and where aggregate grading is carefully selected may be as high as 15%.
- With Gap-grading or harsh mix, or mix with water absorbent aggregates, the cement reduction may be less than 10%. It is important to determine the optimum cement content by site trials. Concrete mixes can be produced with a reduction of water in the region 10 to 15% with an increase in workability by 80 to 120 %.

PRODUCT DATA

A) Colour	: Brown Liquid
B) Consistency	: Low Viscosity
C) Specific Gravity	: 1.19 to 1.20
D) Air Entrant	: 0 to 1%
E) Chloride Content	: NIL
F) Nitrate Content	: NIL
G) Dosage	: 0.200 - 0.500 liter per 50 Kg. cement (0.4 to 1% volume to weight cement)
H) Packing	: KG-1,5,10,20,50,250



SITE WORK

		Water cement ratio	Compacting factor	Air content (%)	Free wet density kg/m ³	compressive strength N/mm ²	
						7 Day	28 Day
Without Conflo	1	0.667	0.885	0.8	2375	26.5	34.5
	2	0.667	0.896	0.8	2380	26.5	35.0
	Average	0.667	0.891	0.8	2378	26.5	35.0
Conflo A	1	0.667	0.919	0.9	2392	30.5	37.5
	2	0.667	0.934	1.0	2383	27.5	38.5
	Average	0.667	0.927	0.95	2388	29.0	38.0
Conflo B	1	0.613	0.884	0.9	2397	33.0	45.0
	2	0.613	0.883	1.0	2382	33.0	43.5
	Average	0.613	0.884	1.0	2390	33.0	44.5

Dosage rate of CONFLO - MLS in both mixes was 0.200 liters per 50 kg cement. The cement content of all three mixes was 300 kgs./m³

EFFECTS OF OVER DOSAGE

A severe over dosage of CONFLO will result in :-

- Increase in the workability of concrete.
- Retardation of initial setting time.

COMPATIBILITY

Cemseal CONFLO - MLS can be used with all types of portland cement and sulphate resisting cement. For use with other special cement, contact our technical services division.

SAFETY PRECAUTIONS

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs. Treat splashes to eyes and skin immediately.

If accidentally ingested, seek immediate medical attention. Reseal containers after use.

TECHNICAL INFORMATION & SERVICES

Further information and advice including practical demonstration are freely available from the technical service department of Cemseal Industries Ltd.

NOTE

- Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local Cemseal representative.
- Cemseal reserves the right to have the true cause of any difficulty determined by accepted test methods.

Address

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