



Max Flo CI is a liquid corrosion inhibiting admixture based on Calcium Nitrile. It provides an effective barrier against chloride corrosion of reinforcing steel in concrete structures thus increasing the life of the structure.

USES

Max Flo CI is used as corrosion inhibitor in concrete for piling, marine structures, structures to be treated with deicing salts, areas with high chloride contents, etc.

ADVANTAGES

- ✓ Provides protection for reinforcement steel.
- ✓ Exhibits neutral setting time to the concrete.
- ✓ Increases compressive strength.
- ✓ For use in pre stressed and post-tensioned concrete.

WORKING MECHANISM

Calcium Nitrite inhibits corrosion by reacting with ferrous ions at rebar level to form a stable passive film of ferric oxide (Fe_2O_3) on the reinforcement steel, around the anode. Calcium Nitrite promotes the stabilization of the passive layer of oxide normally found on the reinforcing steel in concrete. Its protective mechanism works through repairing the defects that usually occur in the oxide structure, thus preventing chloride ions from penetrating the pure ion of metal. The induced barrier is insoluble and after determining the chloride content, the Structural Engineer can specify the appropriate amount of Max Flo CI that should be added to ensure the structural integrity of concrete.

TYPICAL PROPERTIES AT 25°C

Property	Test Method	Value
Component	-	Single
Form	-	Liquid
Colour	-	Pale Yellow
Specific Gravity	ASTM C494	1.28 +/- 0.05
Air Entrainment	ASTM C231	Up to 1% over Control Mix
Chloride Content	BSEN 480-10	Nil to BSEN 934-2
pH	ASTM C494	7-9
Calcium Nitrite	-	Min 30%

Typical results under laboratory conditions. Results may vary as per site and usage conditions



COMPATIBILITY

Max Flo CI can be used with all types of cements and cementitious materials like fly ash, GGBS, micro silica etc. it is also compatible for use in the SNF, lingo and PC based admixtures.

DOSAGE

Recommended dosage is 7.0 –25 Ltr per cubic meter depending on severity of corrosive environment and chloride content of the structure. Optimum dosage of Max Flo CI and effect on concrete properties such as workability, strength, setting time, etc. are best assessed after preliminary tests on site using the actual materials of mixes under consideration.

EFFECT OF OVERDOSING

Overdosing may result in accelerated setting time and decrease in workability.

PACK SIZE

Available in 1 Liter, 5 Liters, 10 Liters, 15 Liters, 25 Liters and 200 Liters of packaging.

DISPENSING

Max Flo CI is directly dispensed into the mixed material. It should be the last additive to be added to avoid fast acceleration and reduction in workability.

SHELF LIFE

12 months from the date of manufacture when stored under cool and dry warehouse conditions in original unopened packaging. Extreme temperature and humidity may reduce shelf life.

HEALTH AND SAFETY

This product is considered as non-hazardous and safe for transportation. Suitable masks and gloves can be worn during application. Contact with skin should be avoided. Refer to product MSDS for further health and safety information.



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