

CAPLAST CORROSION INHIBITOR

CALCIUM NITRITE BASED CORROSION INHIBITOR

DESCRIPTION

CAPLAST CORROSION INHIBITOR is a calcium nitrite based admixture designed to chemically inhibit the corrosive action of chlorides on reinforcing steel and prestressed strands in concrete. It's a liquid admixture meeting the requirements of ASTM C1582, which is added to concrete during the batching process.

FEATURES

CAPLAST CORROSION INHIBITOR inhibits corrosion of steel in concrete at its most critical points. CAPLAST CORROSION INHIBITOR provides additional protection by adsorbing onto the reinforcing steel to form a corrosion resistant protective film. The protective film dramatically slows down the corrosion process by preventing chlorides from reacting with reinforcing steel.

USES

CAPLAST CORROSION INHIBITOR is recommended for all types of steel reinforced concrete, including pre cast/ pre stressed and post tensioned application. Parking garages, bridge decks, slabs, floors and other reinforced concrete application requiring corrosion protection against chlorides.

ADVANTAGES

- Calcium nitrite based formula
- Used for many years in the concrete industry.
- Chemically inhibit the corrosion process.
- Reduces the need for additional
- Accelerating admixture in cold weather
- Increases protection for reinforcement in concrete.

TYPICAL PROPERTIES

Specific gravity @ 25⁰c approx. 1.2 kg/l

Calcium Nitrite content: Minimum 30 %

CEMENT COMPATIBILITY

Compatible with all types of ordinary portland cement and pozzolonic material as well as Ahlia range admixtures, provided they are added separately to the mix.

Shelf Life :

At least 18 months if stored in tightly sealed containers at normal ambient temperature.

DIRECTION FOR USE

Mix design

It is strongly recommended to establish optimum dosages. Trials to be made with actual ingredients and job site requirement. Preliminary trials will allow the ready mix concrete producer to determine the proper batching sequence and the required dosage of other admixture needed to deliver the specified concrete mix to job site.

CAPLAST CORROSION INHIBITOR is supplied ready for use. It should be added to concrete mixes during mixing process preferably at the same time along with mix water.

Typical dosage

As per specified on the project or as a guide 5 to 30 liter /m³ of concrete depending on chloride ion protection required.

CAPLAST CORROSION INHIBITOR has a high dosage level, calculation of water: cement ratio should include the water added to the mix in admixture.

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Concrete Set Time

CAPLAST CORROSION INHIBITOR may aggravate slump loss particularly at high ambient temperatures. In some cases, depending on the environmental conditions, it may be necessary to use either an accelerator or a retarder to control setting. This must be determined conducting site trials.

Packaging

CAPLAST CORROSION INHIBITOR is supplied in bulk by arrangement, 205 liter barrel or 20 liter cans. **Storage** Preferably store in sealed conventional containers, protected from extreme weather conditions.

Air Entrainment

CAPLAST CORROSION INHIBITOR will not affect air content of normal weight concrete. In air entrained concrete, it may moderately reduce the entrained air content. Due to this, it may be necessary to increase the dosage of the air-entraining admixture to maintain the desired air content.

SAFETY PRECAUTIONS

CAPLAST CORROSION INHIBITOR is non toxic and non flammable. Splashes to eye should be washed immediately with abundant of water. It is advisable to use goggles and gloves while handling CAPLAST CORROSION INHIBITOR

Dispensing

Best by dispenser into the gauging water or directly with water into mixer.

Overdosing

An overdose of double the recommended dose results in Acceleration of setting time. The ultimate compressive strength will not be affected significantly.

TECHNICAL SERVICE:

Our Technical Service Department is available at any time to advise you in the correct use of this product or any other Ahlia products.

Note : The information presented herein is based on the best of our knowledge and expertise for which every effort is made to ensure its reliability. Although all the products are subjected to rigid quality tests and are guaranteed against defective materials and manufacture, no specific guarantee can be extended because results depend not only on quality but also on other factors beyond our control.

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