Concrete Admixtures, Adhesives & Aids

EDECON COOLSET-CI

DESCRIPTION

Edecon CoolSet-CI is a liquid concrete additive formulated especially to protect structural steel components from corrosion. **Edecon CoolSet-CI** is used primarily to provide the most effective and technologically advanced and proven protection to extend the service life of concrete structures.

Specification: ASTM C-494, Type C

USES

Edecon CoolSet-CI should be for any concrete placed where it will be exposed to environments that can induce corrosion in reinforcing steel such as:

- Concrete in contact with seawater, or near the ocean
- Docks, pilings and marine structures
- Concrete parking garages
- Roadways exposed to de-icing salts

ADVANTAGES

- Protects against corrosion due to sea salts and other corrosives
- Easy to apply using conventional methods
- Extends the working life of concrete structures
- Reduces maintenance costs
- Does not effect the properties such as strength, permeability, etc. of the concrete

TECHNICAL INFORMATION

Corrosion is an electrochemical process involving a flow of electrical current. When two metals are submerged in an electrolyte, they develop different electrical potentials. If the two metals are connected together, electrons flow from anode to cathode. Reinforcing steel in concrete can develop the same conditions when there are areas exposed to differing levels of humidity, oxygen and various dissolved materials. The presence of impurities, interior forces and other factors within the steel can also create areas of differing potentials within the concrete.

In alkaline environments such as exist in concrete, corrosion ma not occur simply because the pH is higher than 10. This is due to the fact that the steel is sealed within a protective iron layer normally formed by alkaline reaction of the steel. If the pH falls below this level, the protective layer is broken and the steel begins to corrode. One of the most effective and economical ways to minimize or reverse the corrosion nearly completely is with the use of a corrosion inhibitor such as **Edecon CoolSet-CI**.

Edecon CoolSet-CI is beneficial whenever the steel is clean and free of chloride contamination. The quality of the concrete is very important; the better the quality of the concrete, the longer it will take for the chloride ions to reach the steel and begin corrosion. It is recommended that the concrete meet the specifications outlined in ACI 318 *"Building Code Requirements for Reinforced Concrete"* and ACI 357 *"Guide for the Design and Construction of Fixed Offshore Concrete Structures"*, having to do with protection from corrosion.

PHYSICAL CHARACTERISTICS

pH	
Specific Gravity	
Weight per Gallon	
Weight per Liter	
Appearance	
H_2O Solubility	
Odor	

APPLICATION

Use **Edecon CoolSet-CI** at the rate of 2 to 6 US gallons per cubic yard (7.5 to 22.5 liters per cubic meter). The level of protection increases in direct proportion to the dosage.

DOSAGE

PACKAGING

All of our products are available in the following delivery container sizes:

- Sample Jug – 19 liter / ≈ 5 US gallon
- Sample Mini-drum – 57 liter / ≈ 15 gallon
- Drum/Barrel – 200 liter / ≈ 53 gallon volume in a 55 US gallon drum
- Transport Tote – 1,000 liter / ≈ 263 US gallon
- Various Sized Tankers – available for bulk volumes

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