

CATEGORY

BUILDING MATERIALS/COMPONENTS



PRODUCT / TECHNOLOGY



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Technology Detail

CONCRETE CORROSION INHIBITOR ADMIXTURE

Construction chemical for preventing corrosion of steel reinforcement in concrete.



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Video

CONTACT DETAILS

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BRIEF

The agency, as a licensee of CSIR-CECRI, has come up with a patented Concrete Corrosion Inhibitor Admixture for preventing corrosion in reinforced concrete. The Central Electrochemical Research Institute, Karaikudi (CECRI), Tamil Nadu is one of the leading R&D Institutes under the Ministry of Science & Technology, Govt. of India.

The product just like other admixtures, can be directly added into wet concrete at the batching plants with batch water. It can also be added to the transit mixture at the site, and mixed along with batch water at the time of discharge. The dosage is 200 ml per bag of cement for Mild & Moderate environment and 250 ml per bag of Cement for High Chloride environment.



SALIENT FEATURES

- It is User & Eco-friendly, Non-toxic
- Creates adherent, thin protective film on metal surface.
- Suitable for high chloride environments. Increase resistance of natural passivating film on the metal surface to be broken down by chloride.
- Inhibitor maintains high alkaline environment & controls corrosion due to carbon dioxide.
- Improves the durability of reinforced concrete structure.
- It is an alternate to Rebar Coatings

ECONOMIC ASPECTS

- It is economical in use.



MS Tank required for Coating



Reinforcement Bar after Coating lying at yard

SUSTAINABILITY ASPECTS

- The corrosion of steel reinforcement, is one of the most significant durability issues of the concrete structure, which leads to rust formation, cracking, spalling, delamination and degradation of structures. This is considered to be the main factor causing damage in bridges, commercial buildings, flyovers, residential buildings and other infrastructures. The product provides additional safety against corrosion of steel, and improves the durability & service life of the structure.

SUITABILITY & AVAILABILITY

- It is suitable for all structures like residential and commercial buildings, bridges, airports, flyovers, dams etc built in mild, moderate, marine and high chloride environment conditions.
- The product is available in 5 Ltr, 10 Ltr, 20 Ltr, 50 Ltr and 200 Ltr packing.

LIMITATIONS, IF ANY

- It is essential that Cleanflo Steelcare be made part of the trial mix along with desired admixture.
- Self-life of the product is 18 months from the date of manufacturing in sealed condition, the container is to be kept closed when not in use and away from direct heat and sunlight.
- The dosage needs to be used as per manufacturer's specification/ environment conditions



Coated bar in use



Coated bar in use



Bars after treatment

MARKET LINKAGES

- It can be supplied pan India.

MAJOR PROJECTS

- Various Indian Railways & Metro Projects
- Delhi Development Authority (DDA), Delhi
- PWDs & NHAI

CERTIFICATION/INDIAN STANDARD/ENDORSEMENT

- IS: 9077-1979,
- PATENT NO -109784/67
- Enlisted in Telangana & Andhra Pradesh Building SOR 16-17,17-18,18-19

